

HANDS-ON PREVIEW: OS X MOUNTAIN LION

Macworld

www.macworld.com

April 2012

ios ESSENTIALS

12 Things Every iPhone and iPad User Should Know

- » Sync Everything
- » Multitask
- » Manage Apps
- » And More!



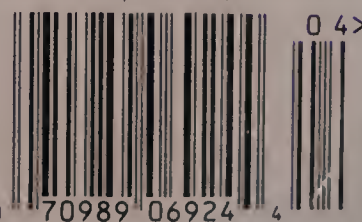
PLUS

Reviewed: iBooks 2
and iBooks Author



How to Share
Photos Online

\$6.99 U.S.

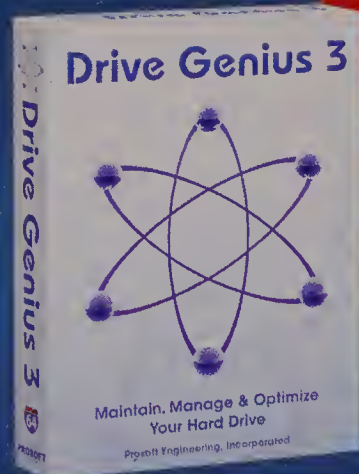


SAVE \$400!

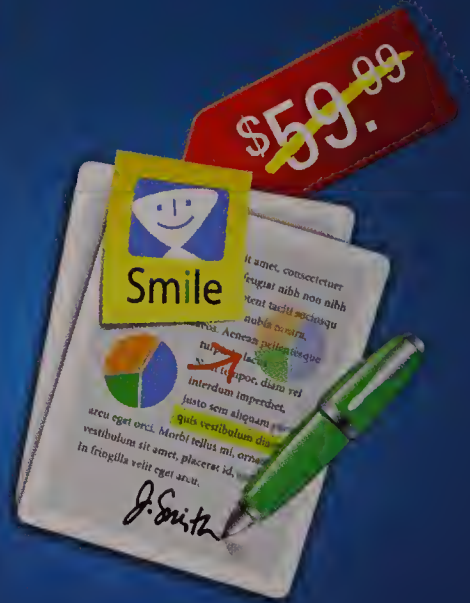
for a very
limited time!



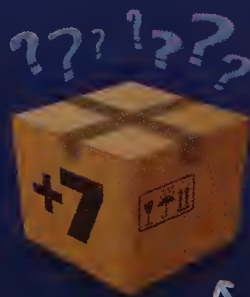
VMware Fusion 4
Run windows on your
Mac without rebooting



Drive Genius 3
Maintain, manage, and
optimize your hard drive



PDFpen
Add images, OCR text,
annotation and more



PLUS SEVEN
MORE TOP APPS!

you have to visit the site to find out

We make deals with top publishers to get you the best apps at the best price. Get 'em all for **\$49.99**

mupromo.com/mw

only at



STARTS MARCH 14



Mac OS X Lion
Compatible Apps

MacUpdate is a registered trademark of MacUpdate LLC. Fusion 4 is a registered trademark of VMware, Inc. Drive Genius 3 is a registered trademark of Prosoft Engineering, Inc. PDFpen is a registered trademark of Smile. Mac OS X Lion is a registered trademark of Apple, Inc.

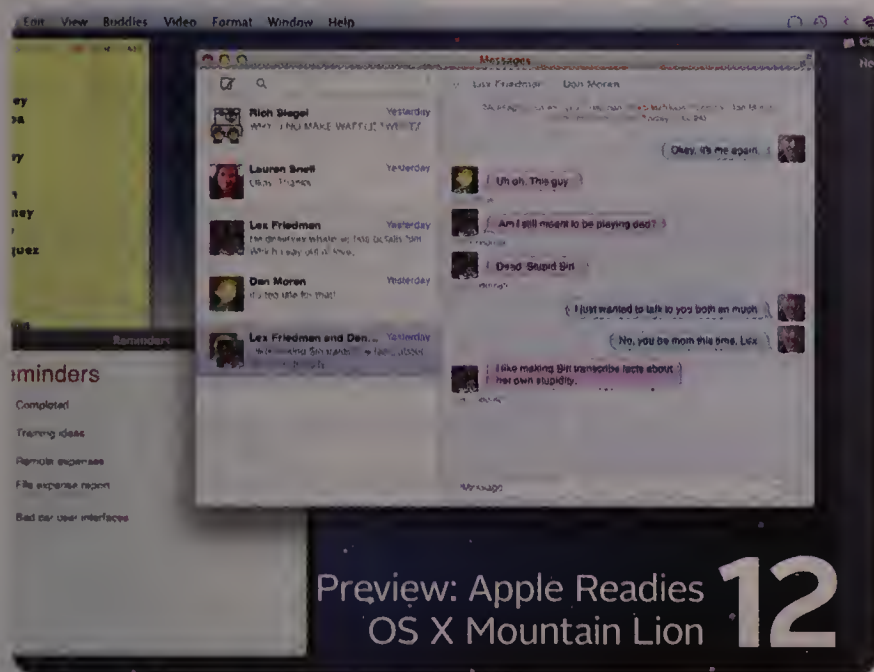
Macworld

CONTENTS

April 2012



36 12 Things Every iPhone and iPad User Should Know



Preview: Apple Readies OS X Mountain Lion **12**



On the Cover

Photograph by Peter Belanger

COVER STORY

36 12 Things Every iPhone and iPad User Should Know

Apple's iOS devices are famously easy to use straight out of the box, but even so, they can do a lot more than you might realize. Master our list of a dozen essential tasks, and you'll be able to count yourself as one savvy iOS user.

OPINION

5 From the Editor's Desk

There's no denying that the iPhone, iPad, and iPod touch have become vitally important parts of the Mac world.

11 Feedback

Readers respond.

MAC USER

12 Preview: Apple Readies OS X Mountain Lion

Apple schedules Mac OS X 10.8 for a summer 2012 release.

16 Top Products from Macworld | iWorld 2012

18 Apple CEO 'Outraged' at Reports of Mistreatment

18 Browett Takes Over Apple Retail

PLUS: Hot Stuff **24**

20 Mac Gems

Record any sound you hear on your Mac, get help remembering to pay your bills, focus on your manuscript, and more.

iOS CENTRAL

26 Optimized Ebooks Impress in iBooks 2

REVIEW Apple's updated mobile e-reader brings an immersive experience to the iPad—along with some flaws.

28 Setting Location-Based Reminders in iOS 5

28 AT&T Raises Rate Plan Prices, Data Limits

30 Abvio's Fitness Apps to Get a New Look

PLUS: Reviews **34**

32 App Guide

Each month, we review the App Store offerings that have caught our eye.

WORKING MAC

60 Think Clean

Here are simple ways to clear the grunge, dirt, and dust from your computer, keyboard, and screen.

62 Why I Use Scrivener for Business Writing

64 Back Up Your Apps

PLUS: Reviews **66**, Business Center **68**

PLAYLIST

70 Audiobooks.com Is Netflix for Books

We take a first look at the new monthly audiobook subscription service.

71 Apple Unveils iTunes U App

PLUS: Reviews **72**, Hot Stuff **73**

CREATE

74 iBooks Author Fashions Multimedia Texts

REVIEW Apple's new desktop app, iBooks Author, is designed to build beautifully crafted multimedia books solely for the company's iBookstore and iPad tablet.

76 Smart Tips for Sharing Photos Online

77 First Look: Final Cut Pro X 10.0.3
Restores Pro Features, Adds New Ones

PLUS: Reviews **78**

HELP DESK

82 Mac OS X Hints

Select text in Quick Look, clean out Launchpad, enable Time Machine snapshots on desktop Macs, and learn some Photo Booth power tricks.

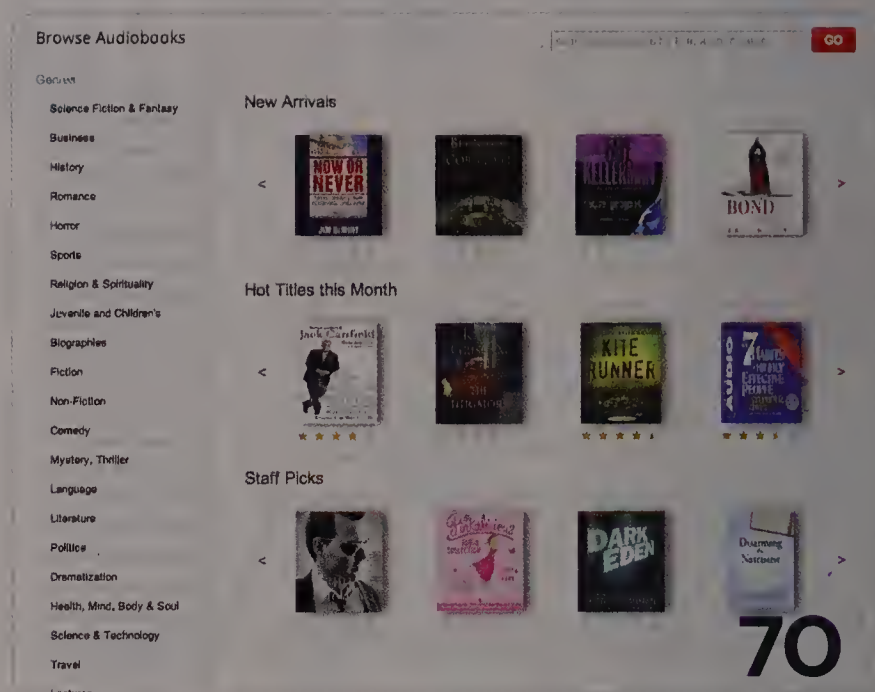
84 Mac 911

Sync iCloud with Windows Outlook, easily encrypt with Disk Utility, reset an administrator password, partition a hard drive that contains data, and more.

BACK PAGE

96 Spotlight

Developer and teacher Fraser Speirs contemplates Apple's education initiative.



MULTIMEDIA AT MACWORLD.COM

Check out our latest podcasts, slideshows, and videos



Podcast: Less Than Perfect Apps

Mac luminaries talk about their favorite apps and how they'd fix nagging flaws (macworld.com/a/165097).

We also recommend:

Video: Enable iTunes Home Sharing on Macs and iOS Devices (macworld.com/a/164870).

Podcast: The State of Apple (macworld.com/a/165072).

Podcast: Developers and the App Store (macworld.com/a/165115).

Video: Organize Files in the Finder with Arrange By (macworld.com/a/165182).

HAVE MORE FUN ON A TANK OF GAS.

Go up to 540 highway miles before you ever fill up. The 30-hwy-mpg* Edge with available EcoBoost®. All the performance of a larger engine. All the efficiency of a smaller one.



2012 **EDGE**



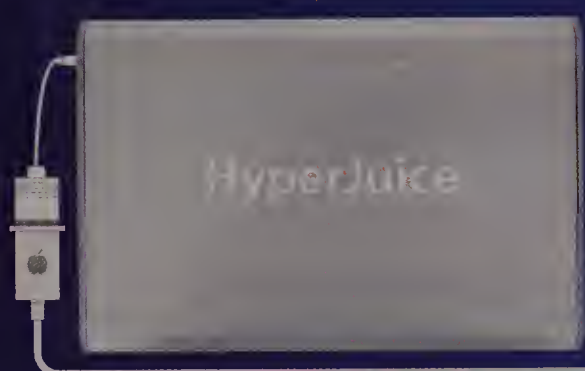
*EPA-estimated 30 hwy mpg and 18-gallon tank.

World's Only External Batteries for MacBook® HyperJuice™

2

Ways to Connect
HyperJuice to
MacBook

Extend the life of your
Apple® MacBook, iPad®,
iPhone® & USB devices
with **HyperJuice!**



HyperJuice comes with an auto/airline adapter that connects to the MagSafe Airline Adapter* to power the MacBook.

*MagSafe Airline Adapter is sold separately by Apple. It provides power for the MacBook but does not charge the battery. If you want to charge the battery, refer to HyperJuice Magic Box.



HyperJuice is also equipped with a 10W (5V, 2.1A max) high power USB port that can charge the Apple iPad, iPhone or any USB device.



Alternatively, use **HyperJuice Magic Box** to modify your existing MacBook Power Adapter to 1) charge the HyperJuice external battery, 2) charge the MacBook, 3) create a MacBook car charger and 4) Create a MagSafe charging cable that powers and charges the MacBook. battery



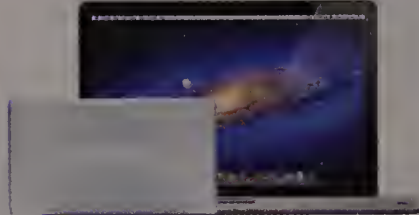
HyperJuice 60Wh
(16,000mAh)

Extend your MacBook
battery life up to 20 hrs.



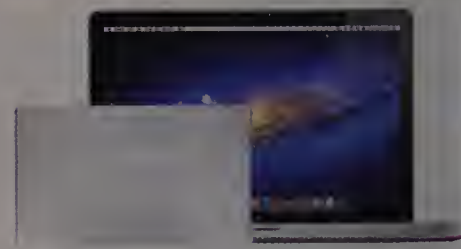
HyperJuice 100Wh
(27,000mAh)

Extend your MacBook
battery life up to 26 hrs.



HyperJuice 150Wh
(41,000mAh)

Extend your MacBook
battery life up to 34 hrs.



HyperJuice 222Wh
(61,000mAh)

Extend your MacBook
battery life up to 45 hrs.

Back to the Mac Again

With each new iteration, OS X and iOS are growing closer to one another

Whenever we cover iOS devices in *Macworld* (as we do in this month's cover story, "12 Things Every iPhone and iPad User Should Know," page 36), some readers inevitably complain. "I don't have an iPhone," they'll say, or "I see no reason to get an iPad." The complaints usually include some variation on, "This is *Macworld*, not *iPhoneworld*!"

Yes, this is still *Macworld*—and we're proud of it. But just as Apple has evolved in the 28 years since the Mac was first introduced, so have we. The company now sells more iPhones and iPads than Macs. More than half of the money it took in during the last three months of 2011 was from iPhone sales. Even if you despise those other products, you can't deny that there's much more to Apple than just the Mac.

A Single Ecosystem

But there's more behind our coverage of iOS than Apple's shifting revenue streams. Last year Apple introduced iCloud, the data-syncing service that makes all of your digital stuff available to any device running iOS or Mac OS X. The service integrates iPhones and iPads with Macs in a single ecosystem.

Last year Apple also introduced Mac OS X Lion, which bore more than a faint resemblance to iOS. It makes business sense: All of those iPhone and iPad users out there are potential new Mac customers; Lion will feel familiar to them. But Apple also sees a virtue in consistency and wants its products to have a similar look and feel. That's what's been happening to OS X and iOS.

Now it's happening again. With the just-announced Mac OS X Mountain Lion, Apple is bringing the innovations introduced in last year's iOS 5 to the Mac (see "Preview: Apple Readies OS X Mountain Lion," *MacUser*, page 12).



You can no longer consider iOS devices interlopers in the Mac experience.

Among other new features, the new OS X will include a number of apps that will be familiar to iOS users, including Reminders, Notes, Game Center, Contacts, and Messages. Yes, that's right: Address Book will become Contacts and iChat will become Messages.

What's more, Mountain Lion more thoroughly integrates iCloud and the Mac. Now that Apple is no longer charging \$99 per year for its online service, but rather giving it away free to anyone who buys its products, iCloud is no longer an afterthought, the way MobileMe always was. All those new iPads and iPhones are now built to sync with all the new Macs.

What this means is that you can no longer consider iOS devices interlopers in the Mac experience. The Mac of today is designed with those other devices in mind. The Apple ecosystem is one big collection of devices, some running OS X, others iOS.

Macworld has always covered the latest features of the Mac and explained how to take advantage of them. With Lion and

Mountain Lion, the future direction of OS X is pretty clear. There's no denying that the iPhone, iPad, and iPod touch have become vitally important parts of the Mac world.

A New Gatekeeper

Ever since Apple made the iOS App Store the sole source of third-party apps for the iPhone and iPad, many Mac users have worried that Apple might do something similar for OS X. Last year's arrival of the Mac App Store cranked up the volume on those fears. With Mountain Lion, though, Apple has done the right thing: It's leaving decisions about what gets installed on your Mac up to you.

Mountain Lion contains a new feature, Gatekeeper, that can prevent downloaded apps from running if they don't meet certain conditions. Yes, you could configure your system so only software from the Mac App Store would run on it—but that's not the default.

Instead, Apple has created a developer-registration system that makes sure an app hasn't been modified since the developer posted it. By default, apps from registered developers will launch in Mountain Lion without any trouble. The system also provides Apple with a "kill switch," in case a rogue app appears. And, of course, you can also opt to allow any app to launch, as you can do now.

I admit that I was concerned about the long-term viability of third-party Mac apps outside the Mac App Store ("The App Culture," *From the Editor's Desk*, October 2011). These days, I'm a lot less concerned. Apple seems to be giving us increased security if we want it, without taking away freedom of choice. That's good news for users and app developers.

Jason Snell is the editorial director of *Macworld*. Email him at jason_snell@macworld.com or follow him on Twitter at twitter.com/jsnell.

sidekick™

by LENS PEN®

Designed to clean fingerprints on
iPads • Tablets



Special Macworld Offer at
lenspen.com/macworldapr

Enter Promo Code **MACWORLDAPR**
And save 50%!

Macworld

VP, EDITORIAL DIRECTOR Jason Snell

EDITORS Philip Michaels, Dan Miller

EXECUTIVE EDITOR Jonathan Seff

MANAGING EDITOR Sue Voelkel

ART DIRECTOR Rob Schultz

SENIOR EDITORS Christopher Breen, Jackie Dove,
Dan Frakes, Roman Loyola, Scholle Sawyer McFarland

ASSISTANT MANAGING EDITOR Sally Zahner

SENIOR ASSOCIATE EDITOR Dan Moren

STAFF WRITER Lex Friedman

STAFF EDITORS Serenity Caldwell, Alexandra Chang,
Leah Yamshon

DESIGNER Kate VandenBerghe

COPY EDITOR Gail Nelson-Bonebrake

EDITORIAL INTERN Karissa Bell

SENIOR CONTRIBUTORS Adam C. Engst, Glenn Fleishman,
Rob Griffiths, John Gruber, Jim Heid, Andy Ihnatko,
Joe Kissell, Ted Landau, Rick LePage, Ben Long,
Kirk McElhearn, John Moltz, John Siracusa, Derrick Story

DIRECTOR, MACWORLD LAB James Galbraith

LAB MANAGER Tony K. Leung

DEVELOPMENT ANALYSTS Thomas Luong, William Wang

EDITORIAL ASSISTANTS Alex Cocilova, Alex Wawro

LAB INTERN Mauricio Grijalva

CONTRIBUTING PHOTOGRAPHER Peter Belanger

HOW TO CONTACT MACWORLD SUBSCRIPTION SERVICES

Access your subscription account online—24 hours a day, 7 days a week—at www.macworld.com/customer_service or <http://service.macworld.com>. You can use online subscription services to view your account status, change your address, pay your bill, renew your subscription, report a missing or damaged issue, get the answers to frequently asked questions, and much more.

To start subscribing, visit <http://subscribe.macworld.com>.

U.S. MAIL Macworld Subscriptions Department
P.O. Box 37781, Boone, IA 50037-0781
(If you are writing about an existing account,
please include your name and address as they
appear on your mailing label.)

EMAIL subhelp@macworld.com
(Send your full name and the address at
which you subscribe; do not send attachments.)

FAX 515/432-6994

PHONE 800/288-6848 from the U.S. and Canada;
515/243-3273 from all other locations

The one-year (12-issue) subscription rate is \$34.97; the two-year rate, \$59.97; and the three-year rate, \$79.97. Foreign orders must be prepaid in U.S. funds; add \$10 per year for postage to Canada or \$20 per year for air freight to all other countries. Checks must be made payable in U.S. currency to *Macworld*. Please allow 3 to 6 weeks to receive your first issue or for changes to be made to an existing subscription.

SUBSCRIBERS: If the Post Office alerts us that your magazine is undeliverable, we have no further obligation unless we receive a corrected address within one year.

MACWORLD EDITORIAL

The editors of *Macworld* welcome your tips, compliments, and complaints. Some stories and reviews from past issues can be located at www.macworld.com. We are unfortunately unable to look up stories from past issues; recommend products; or diagnose your Mac problems by phone, email, or fax. You can contact Apple toll-free, at 800/538-9696, or visit the company's website, at www.apple.com. For editorial and advertising contact information, please turn the page.

April 2012, Volume 29, Issue 4

Macworld is a publication of Mac Publishing, L.L.C., and International Data Group, Inc. *Macworld* is an independent journal not affiliated with Apple, Inc. Copyright © 2012, Mac Publishing, L.L.C. All rights reserved. *Macworld*, the *Macworld* logo, the mouse-ratings logo, *Macworld Doily Reader*, *Macworld Lab*, *PriceGrobber*, *MocCentral.com*, and *Mac Developer Journal* are registered trademarks of International Data Group, Inc., and used under license by Mac Publishing, L.L.C. *Apple*, the *Apple* logo, *Moc*, and *Macintosh* are registered trademarks of Apple, Inc. Printed in the United States of America.



INTERNATIONAL DATA GROUP CHAIRMAN OF THE BOARD
Patrick J. McGovern

IDG COMMUNICATIONS, INC. CEO
Bob Carrigan

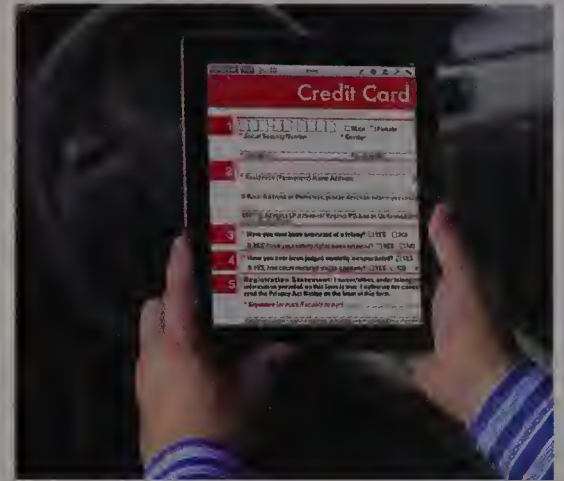
Finally. The true mobile office app.



Sign a document and return without printing.



Fix a typo on your menu.



Complete a form on the go.



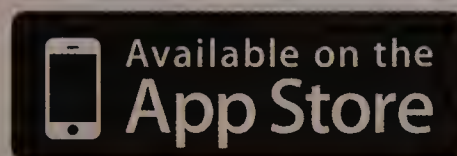
Give feedback on a draft presentation.

New!
PDFpen
for iPad



Make a change in your client's work order.

Unleash the power of your iPad with PDFpen.
It's a mobile app that doesn't feel like you left
some important features back at the office.



www.smilesoftware.com/ipadpdf

GET READY TO



PLUG & PLAY



Integrated Ports

plug and play,
no setup required

Rubberized Cradle

gives your MacBook
a cozy home

MagSafe Cable Clip

keeps your power
cable accessible

HENGE·DOCKS

Docking Stations for Apple Notebook Computers

www.HengeDocks.com

Macworld

PRESIDENT AND CEO
Mike Kisseberth

**SENIOR EXECUTIVE
ADMINISTRATOR**
Caroline Ward

SENIOR VP, SALES AND MARKETING
Stacey Levy (415/978-3255)

SENIOR DIRECTOR, SALES
Gabe Rogol (415/974-7373)

EAST

ACCOUNT DIRECTORS
Kathy Rebello (508/820-0440)
Amy Singer (201/634-2317)

ACCOUNT EXECUTIVE
Paul Moretti (415/243-3575)

SALES ASSOCIATES
Morgan Branon (415/978-3271)
Shari Redan (207/899-2099)

SOUTHWEST

ACCOUNT DIRECTOR
Cindy Hamilton (949/442-4005)

SENIOR ACCOUNT EXECUTIVE
Duane Hampson (415/978-3133)

SALES ASSOCIATE
Chrissy Schneider (415/978-3269)

NORTHWEST

ACCOUNT DIRECTORS
Elaine Ebner (415/267-4578)
David White (415/243-3664)

MARKETING MANAGER
Jim Hopkins

**SENIOR DIRECTOR, SALES
PROGRAMMING & OPERATIONS**
Kevin Barden

PROJECT MANAGERS, SALES
Nelson Hong, Tina Marfori

AD TRAFFICKER
Chris Hanen

AD OPERATIONS COORDINATOR
Roman Martinez

SALES PROGRAM DESIGNER
Eduardo Ribeiro

DIRECTOR, PRODUCTION
Nancy Jonathans

PREPRESS MANAGER
Tamara Gargus

**DIRECTOR, PCWORLD |
MACWORLD CONTENT WORKS**
Robert Strohmeier

**CONTENT MANAGER, PCWORLD |
MACWORLD CONTENT WORKS**
Michael Ansaldo

SENIOR VIDEO PRODUCER
Chris Manners

CTO/VP, PRODUCT DEVELOPMENT
Aaron Jones

VP, MOBILE PRODUCTS
Ulla McGee

MOBILE PRODUCT MANAGER
Thomas Alexander

**VP, AUDIENCE DEVELOPMENT
AND ANALYTICS**
Alexa Wriggins

**DIRECTOR, PRODUCT
MANAGEMENT**
David Lake

PRODUCT MANAGER
Curt Poff

PRODUCT MANAGER
Lauren Russo

**SENIOR MANAGER,
AUDIENCE DEVELOPMENT**
DW Malouf

NEWSLETTER SERVICES MANAGER
Michael E. England

CONSUMER MARKETING MANAGER
Randall Grilli

RESEARCH MANAGER
Miguel Beteta Rodrigo

RESEARCH ANALYST
Kyle Flick

**SENIOR DIRECTOR,
IT & WEB OPERATIONS**
Sean Greathouse

IT MANAGER
Walter Clegg

SYSTEMS ANALYST
Eileen Quan

IT TECHNICIAN
Dan Dudziak

**SENIOR WEB OPERATIONS
ADMINISTRATOR**
Andrew Trice

**DIRECTOR, SOFTWARE
ENGINEERING**
Kieran Fitzpatrick

CHIEF ARCHITECT
Jim Hutson

PRINCIPAL SOFTWARE ENGINEER
Justin Counts

SENIOR SOFTWARE DEVELOPERS
Alexis Barrera, Bill Cappel,
Christian McKeegan, Michael Papp

QA & RELEASE MANAGER
Bhramara Thallapragada

DIRECTOR, ONLINE DESIGN
Sky Collins

USER INTERFACE DESIGNER
Matt Glass

USER INTERFACE DEVELOPER
Jason Meyers

WEB PRODUCER
Ryan Medlin

SUBSCRIPTION MANAGEMENT
Shawne Burke Pecar,
Megan Guard

PROCI RC RETAIL SOLUTIONS
Scott Hill

VP, HUMAN RESOURCES
Kate Coldwell

**SENIOR HUMAN RESOURCES
REPRESENTATIVE**
Ellen Cobb

HUMAN RESOURCES INTERN
Stephanie Goss

SENIOR VP, CFO/COO
Vicki Peilen

**DIRECTOR, FINANCIAL AD
OPERATIONS**
Diane Hacker

**DIRECTOR, ADVERTISING ACCOUNT
SERVICES**
Kevin Greene

BILLING CLERK
Mason Townsend

DIRECTOR, ACCOUNTING
Michelle Reyes

STAFF ACCOUNTANTS
Scott Lum-Duenas, Stephanie Man

HOW TO CONTACT MACWORLD STAFF

Our offices are located at 501 Second Street, 6th Floor, San Francisco, CA 94107; phone, 415/243-0505; fax, 415/243-3545. Macworld staff can be reached by email at firstname_lastname@macworld.com.

LETTERS TO THE EDITOR

Send comments about any aspect of Macworld to letters@macworld.com. Due to the high volume of mail we receive, we can't respond to each letter. We reserve the right to edit all submissions. Letters published in Macworld or on Macworld.com become the property of Mac Publishing.

BACK ISSUES OF MACWORLD

Starting with the March 2003 Macworld, back issues can be downloaded in digital format, from www.zinio.com (\$6.99; Mac OS X 10.1 or later required). Print-format back issues (subject to availability) cost \$8 per issue for U.S. delivery, and \$12 for international delivery; prepayment in U.S. currency to Macworld is required. Send a check or money order to Macworld Back Issues, P.O. Box 37781, Boone, IA 50037-0781; or phone 800/288-6848 (U.S. and Canada) or 515/243-3273 (all other locations).

REPRINTS AND PERMISSIONS

You must have permission before reproducing any material from Macworld. Send email to permissions@macworld.com; please include a phone number.

MAILING LISTS

We periodically make lists of our customers available to mailers of goods and services that may interest you. If you do not wish to receive such mailings, please write to us at Macworld, P.O. Box 37781, Boone, IA 50037-0781, or email us at subhelp@macworld.com. Please include a copy of your mailing label or your full name and address.

MACWORLD | iWORLD CONFERENCE

As the flagship sponsor of Macworld | iWorld conference, Macworld encourages all subscribers to attend this exciting annual industry event. For information, please visit www.macworldiworld.com.



YOUR CREATIVITY HAS NO LIMITS. SHOULDN'T YOUR STORAGE?

MAX READ/WRITE

FASTER ACCESS TIMES

6GBPS

OCTANE
2.5" SOLID STATE DRIVE
INDILINK INFUSED

TRIM SUPPORT

INCREASE
RELIABILITY

UP TO 85,000 IOPS
RUN QUIETER

STAY COOLER



A hard drive can cause your creativity to come to a screeching halt. Business or pleasure, OCZ Solid-State Drives take the hard drive bottleneck out of the equation and take productivity, multitasking, and your overall computing experience to virtually unlimited heights. All OCZ SSDs feature industry-leading performance, reliability, and endurance, making the choice an easy one.

OCZ
Technology
OCZTECHNOLOGY.COM

the SSD experts!

Available at:

newegg.com

amazon.com

Buy.com
The Internet Superstore


MICRO CENTER
The Ultimate Computer Store

NCIX.com
ncix.com

TigerDirect.com
tigerdirect.com

*The all-new Python camera bag collection.
Designed for those who take ideas farther.*

* Model: John Dill (Designer, Photographer & DJ, pickledhouse.com) • Photo: Erik Borzi (erikborzi.com)

booq 

We Can iWork It Out

You're working, I'm working—it seems like everyone's working on the iPad these days. We received so many responses to our March 2012 cover story, "iPad on the Job," that we're dedicating this month's *Feedback* column to your letters and tweets.

As a private pilot, I wouldn't fly without the iPad. It is a vital and incredibly capable tool with flight planning, approach charts, nav maps, and FBO data; it's readily accessible and always up-to-date. It has revolutionized the cockpit of pretty much every airplane out there, and many commercial carriers are now formally adapting it—certainly in the charter jet business, and beyond.

William Midon, via email

I am an avid iPad user, and it is a central part of my rabbinic work these days. That covers pretty much everything I do—email, writing sermons, and even using it on the pulpit. (Yes, I use my iPad in place of a prayer book and sermon text.) In addition, we recently got a grant to begin using iPads in our religious school's educational process.

Daniel Cohen, via email

The iPad is the missing link that is helping the world transition from the old business-to-business and business-to-consumer paradigm to the new order. And it's mighty fun to play a few games in between work, too! I thank Steve Jobs and his team every single day for this awesome tool.

Connie Leinicke, via email

I make all of my artwork on my iPad now. I use a painting program called PaintBook, and I can enlarge the files to almost any size without fragmentation. I can also

import layered files into Adobe Illustrator for alterations if necessary, and then send them to Los Angeles, where the images are printed on Fujiflex. They are considered professional quality, and I have been exhibiting them. I am sure there are many more things available for me to use, but as an artist, the ability to work freely anywhere and send the files to myself is plenty. Since working with this app, my style has changed markedly, with the total manner of presenting my work changing as well. I can't wait to get the next version of the iPad. I consider it my finest tool to date out of 21 years of using Macs and making art on them. Of course I have a Mac Pro, but the iPad's portability and the fact that it lets me work this way have just been outstanding.

Will Montgomery, via email

HOW DO YOU USE YOUR IPAD AT WORK?

We asked and you tweeted:

@lapointe_sarah: I use iPads to teach my 5th graders every week. Students love them.

@lisaricevoice: Primarily to read scripts to save on ink and paper. Only the tip of the iceberg though. Planning to record audio soon.

@MikeWalker: I use it to stay connected to my corporate Windows desktop via Citrix. No need to lug a security crippled laptop around anymore.

@leninwtigger: iPad2 @ work = scientific literature, research journal, quick image access, impromptu presentation/data sharing device, remote SSH.

@simon_w: I'm developing an app on it!

@bathompso: as a grad student (not real work), the iPad is invaluable for replacing paper textbooks.

THROUGH THE LENS: SURGICAL EDITION

Mike Peterson sent in this image from his surgery at Kaiser Permanente: "I use the iPad every day, rounding at work, finding information and pictures on the Web for patients, showing educational videos, and even viewing X-rays on the OR table during surgery to help us navigate to where we need to go."

Have a great Apple-centric photo? Send it to letters@macworld.com, and we may feature it in a future issue.



All reader communications to *Macworld*—through mail, email, our social networking accounts, and our online forums—are presumed to be intended for publication. We reserve the right to edit them.

Preview: Apple Readies OS X Mountain Lion

OS X 10.8 scheduled for a summer 2012 release

BY JASON SNELL

Apple updates iOS once a year, and this year, the company is letting Mac users in on the fun, too. In February, Apple announced a summer release of Mac OS X 10.8 Mountain Lion, just a year after the release of Mac OS X Lion.

Like Lion, Mountain Lion offers numerous feature additions that will be familiar to users of iOS. This release continues Apple's philosophy of bringing iOS features, including iMessage, Reminders, Notes, Notification Center, Twitter integration, and Game Center, "back to the Mac."

Mountain Lion also brings more thorough integration with iCloud, Apple's data-syncing service, as well as options for limiting the kinds of apps users can install.

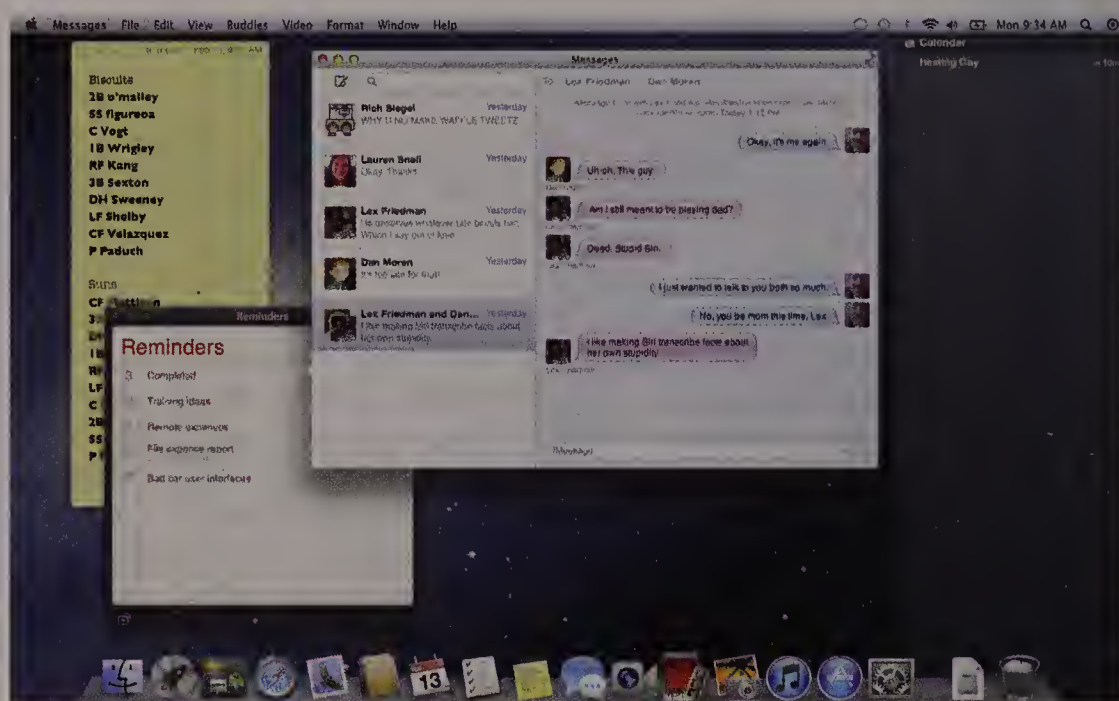
Mountain Lion will be a paid OS X upgrade and, like Lion, will be available only via a Mac App Store download. Apple hasn't yet set a price or announced a release date more specific than summer. Here's a look at what's new, keeping in mind that Apple may

Mountain Lion comes with several new apps that will seem quite familiar to iPhone, iPad, and iPod touch users.

add and change features as the release time approaches.

iOS Apps on the Mac

Mountain Lion comes with several new apps that iPhone, iPad, and iPod touch users will recognize: Reminders, Notes, and Game Center have all made the move to the Mac.



More iOS Features in OS X Mountain Lion's additions include Notes and Reminders apps similar to those found in iOS 5, as well as the evolution of iChat into Messages.

Reminders and Notes look very much as they do on iOS. And thanks to iCloud syncing, they'll display the same data that shows up on your mobile devices. The Notes app does support rich text, which allows you to choose different

and more. And Game Center works across platforms, so gamers can compete against each other no matter which OS they're playing on.

iChat Becomes Messages

There's never been a version of iChat for iOS—instead, iOS handles text messages through the Messages app. That app started life as the Text app, which was used just for SMS messaging on the iPhone, but when Apple introduced the iMessage communication system, it gave the Text app a new moniker—Messages.

In Mountain Lion, all the features of iChat are still there, but Apple has renamed the app Messages, and it now supports iMessage (and is integrated with FaceTime). You can use Messages to send text or images to anyone on a

device capable of using iMessage—namely, devices running iOS 5, and Macs running Messages. Unlike the SMS system, the iMessage system transfers data via the Internet, so there are no text charges.

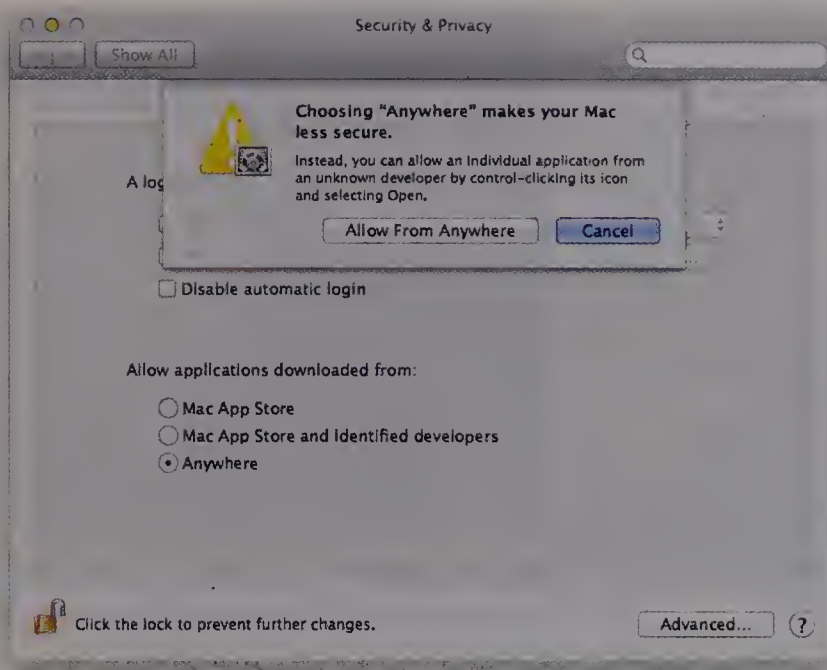
Like Messages on the iPhone, Messages for Mac lets you hold multi-person chats and can optionally let people know when you've received and read their messages and when you're typing a reply. An integrated video-chat button lets you start a video chat with video-capable devices, either over AIM (as iChat has always done) or by launching the FaceTime app.

For iOS 5 users who have been waiting for iChat to support iMessage, this is great news—but having to wait until Mountain Lion's release this summer would be an exercise in frustration. There's good news on that front: Apple says that Lion users can download a beta of Messages. The final version will be available in Mountain Lion.

Notification Center

Sometimes one of your apps needs to get your attention. For years, many Mac app developers have built their own notifications (think of the reminder pop-ups in iCal and Microsoft Office). The open-source Growl project has for years attempted to create a more general notification system supported by many different apps.

With Mountain Lion, Mac OS X gains Notification Center—a system-level notification system accessible to every developer, with features much like those already found in iOS. Alerts appear in the top right corner of the screen in a small bubble. Notifications remain there



for 5 seconds, and then slide off screen to the right. Alerts, on the other hand, remain on-screen until you click on the Show or Close (or, in the case of some alerts, Snooze) buttons.

In iOS 5, you see all your recent notifications by pulling down from the top of the screen to reveal Notification Center. In Mountain Lion, the Notification Center list is a narrow band that lives at the right side of your screen. You can reveal it by either clicking on the new Notification Center icon at the far right of the menu bar or swiping with two fingers, starting at the far right edge of the trackpad. Either way, your Mac's entire screen slides to the left, revealing a list of what's been trying to attract your notice recently.

There's also a new Notifications pane in the System Preferences app, analogous to the Notifications submenu in iOS's Settings app. From here you can choose which apps appear within Notification Center and how their alert bubbles behave.

App Control

The new Gatekeeper feature gives you the option of running only apps from the Mac App Store, only apps from the App Store and specific developers, or any app at all, regardless of its origin.

Gatekeeper

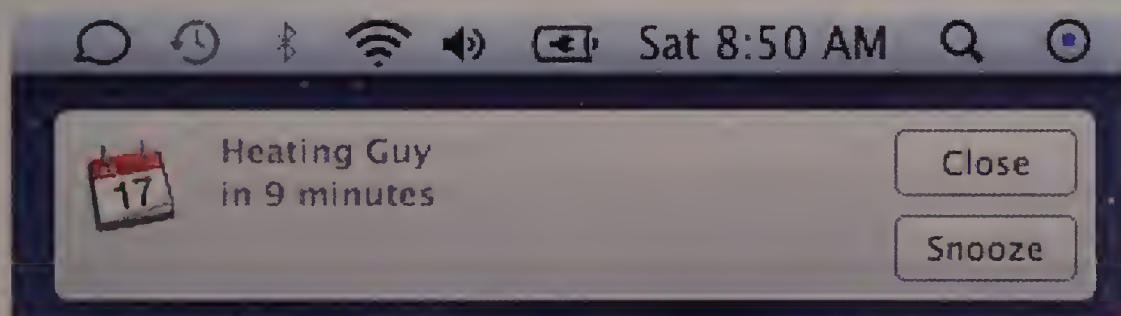
When Apple introduced the Mac App Store, the rumblings started: Is the Mac headed for an iOS-like future, one in which only Apple-approved apps will be able to run on the Mac?

With Lion and now Mountain Lion, those fears haven't come to reality. You can still run apps not bought in the App Store to your heart's content. However, with Mountain Lion, Apple is introducing a new feature called Gatekeeper that allows users to choose for themselves the kinds of apps they can run on their Macs.

Right now, the first time an app launches, OS X checks it and displays a warning. It's an attempt to prevent malware apps from launching when you never intended them to. Mountain Lion extends that feature and ties it into a new setting in the Security & Privacy pane of System Preferences.

By default, Mountain Lion lets only Mac App Store apps and apps from "identified developers" launch for the first time. To become an identified developer, a Mac developer has to register with Apple and get a personalized certificate, which the developer then uses to sign apps cryptographically. Apple doesn't do any sort of background check on the developer, and it doesn't see any of the software.

Apple says that although these apps aren't as safe as those from the Mac App Store, they're safer than many apps, for a couple of reasons. First, a signed app



Notifications It won't be long before third-party apps take advantage of the new Notification Center feature in Mountain Lion.

can't be modified—to add spyware, for instance—without breaking the signature. By default, Mountain Lion refuses to launch an app with a broken signature. Second, if it turns out that an app from a particular developer is actually malware, Apple has the ability to revoke that developer's license—at which point no future Mac users will be able to install software from that source.

Gatekeeper has an option to allow only Mac App Store software to run, as well as an option to allow any app to run. The latter option is what has been the case in all previous OS X versions.

Share Sheets

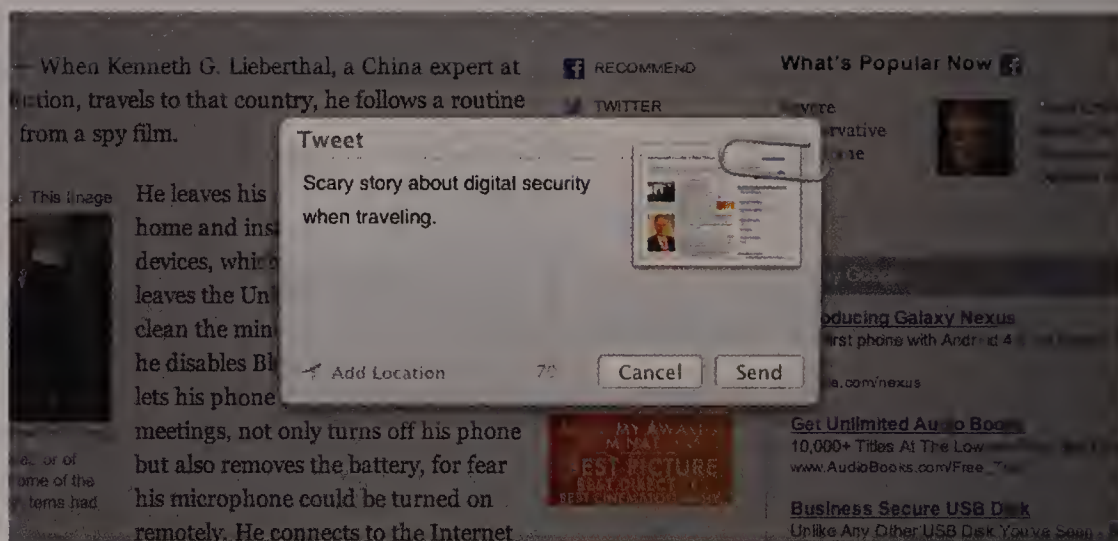
Mountain Lion introduces another interface element inspired by iOS, Share Sheets. This pop-up menu appears when you click on the Share icon in an app. Apple has implemented Share Sheets in several of its apps, including Safari, Preview, and Notes. Developers will be able to add Share Sheets to their apps as well.

A Share Sheet provides a quick way to share what you're working on—a photo in iPhoto, a webpage in Safari—with other services. If you share a webpage from Safari, you can choose to insert it (or just its URL) in a new mail message, or insert a link in a new message in Messages, or even compose a tweet containing the URL. From Preview, you can choose to email the document you're viewing, send it via Messages, tweet it via Twitter, upload it to Flickr, or transfer it locally via AirDrop.

Most of these aren't really new functions, but Apple has centralized them and given developers access to the Share Sheets element, which presumably will result in a more consistent sharing interface in future Mac apps.

iCloud Integration

Apple developed Lion and iCloud in parallel. As a result, while the current version of Mac OS X supports Apple's suite of online services, it doesn't truly embrace it. One of Apple's goals in Mountain Lion is apparently to truly integrate iCloud throughout the system.



Share Content The new Share Sheets feature in Safari and other Mountain Lion apps allows you to quickly share what you're working on with other people.

The results of this effort are apparent at setup: In Setup Assistant, the system asks for your Apple ID and syncs your existing accounts, settings, and personal data. It might not be quite as thorough as restoring an iOS backup from iCloud, but the idea is that your iCloud account unlocks a whole bunch of Mac data so you don't have to reenter it on every new system you use.

Mountain Lion also brings a new Documents in the Cloud view to the traditional Open and Save dialog boxes. Any apps that support Documents in the Cloud open to an iCloud view that displays the documents available via iCloud, with the most recent items first. You can organize this view by dragging one document on top of another to create a folder, iOS style.

Safari Tweaks

Apple isn't making a big deal about changes to the Safari Web browser in Mountain Lion, but there are a few. There's a Share Sheet in the toolbar, with options to add a page to Reading List, bookmark a page, email it, send it to Messages, or share it via a tweet. The now-larger Safari Reader button sits just to the right of the address bar, turning blue when a page is viewable with Reader.

The search box no longer appears next to the address bar. Instead, at long last, Apple has unified the address bar and the search box. Now, if you type "fourth doctor" into that box, you'll get a bunch of links about Tom Baker instead of an

error message telling you that Safari can't find the website <http://fourth%20doctor/>. The address bar also now omits the <http://> prefix on URLs, and while the main part of the URL is displayed in black text, the rest of the URL appears in gray.

Just the Beginning

This is only Apple's first disclosure about what's in Mountain Lion. The company will undoubtedly be adding dozens, if not hundreds, of minor tweaks and small new features. And there might even be big changes it hasn't yet disclosed—after all, we're four to seven months away from Mountain Lion's arrival.

If you're a Mac user, the best news about Mountain Lion is this: Apple doesn't seem to be reducing OS X's development cycle and putting it into maintenance mode. Instead, the pace of OS X releases seems to be accelerating, perhaps so that iOS and Mac OS X can capitalize on each other's advances.

It's also clear that with both Lion releases, Apple is dead serious about making Mac OS X and iOS as in sync as they possibly can be, in terms of both interface and—thanks to iCloud—data. Mac users who aren't fans of iOS might complain, but these days Apple sells many times more iOS devices than Macs in any given quarter. Having all of Apple's products bear a family resemblance to one another can only help.

Jason Snell is *Macworld's* editorial director.

**FREE
PDF
CONVERTER
SOFTWARE**
A \$99 VALUE*

STOP WORKING WITH A PAPER MONSTER

NeatDesk[®] FOR MAC

DESKTOP SCANNER +
DIGITAL FILING SYSTEM



This high-speed, duplex scanner lets you scan multiple paper types all at once, or even insert up to 50 pages for lightning-fast batch scanning.



NeatReceipts[®] FOR MAC

MOBILE SCANNER +
DIGITAL FILING SYSTEM



At less than one pound, the USB-powered scanner fits easily in your laptop bag and is perfect for the road, home, or office.

All that paper piling up in your office can quickly grow to beastly proportions. But Neat[®] helps you stay organized and clutter-free at work, at home, or on the go. Our patented scanner and software solutions extract key details from your paper, then organizes it all in a digital filing system. Good for productivity. Bad for Paper Monsters.

- ▼ **Scan** and organize receipts, business cards and documents in a digital filing system
- ▼ **Create** expense reports, tax reports, digital contacts and more
- ▼ **Export** data to PDF files, Excel[®] and Mac Address Book

ORDER TODAY

visit www.neat.com/mwpdf

OR CALL 866-395-8717

USE PROMO CODE: MWPDF

*with purchase



Top Products from Macworld | iWorld 2012

We recognize the Best of Show at the annual expo

BY ROMAN LOYOLA

The annual expo for Mac and iOS users has evolved to focus on the user community, but the Macworld | iWorld exhibit hall where companies show off their wares is still a huge part of the show—you might even say it's the most important part. Hundreds of products are on display, but a few stand out from the rest. We call these products the Best of Show.

Adonit Jot Touch Artists who use the iPad and a stylus to draw will appreciate the Jot Touch's support for pressure sensitivity (under \$100; adonit.net).

Blue Microphones Spark Digital This \$200 USB condenser microphone can be used with a Mac or an iPad, and has a built-in shock mount and an adjustable stand (www.bluemic.com).

Boinx Software iStopMotion for iPad You can use this app to shoot a series of pictures on your iPad, and then use iStopMotion to assemble a stop-motion animation that you can export as a video clip or upload to YouTube (\$10; boinx.com).

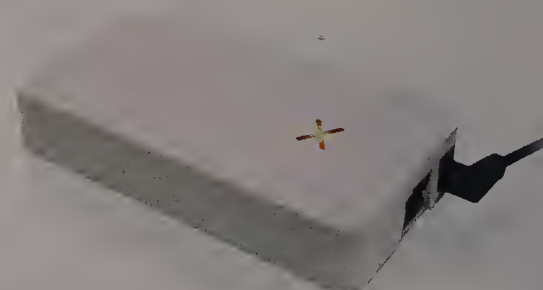
Dev-Audio Microcone A multidirectional microphone in the shape of a cone, this \$359 device can capture audio from six directions on six audio channels. The \$5 Microcone Recorder software lets you adjust the volume of each channel (www.dev-audio.com). For more information, see *Business Center*, page 68, in *Working Mac*.

FileThis Fetch Getting your financial statements from your bank, retirement fund, and credit card companies just got a

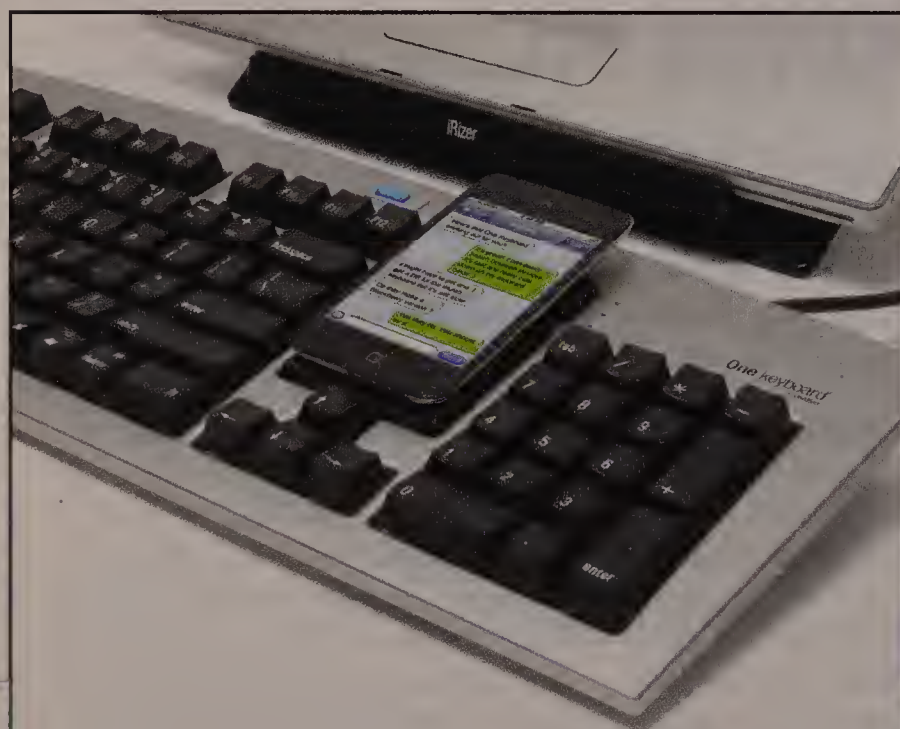
lot easier. For \$2 a month (less if you buy a prepaid plan), Fetch gets these financial statements automatically whenever a new statement is available. It also allows you to save statements into an Evernote account or onto your Mac (filethis.com).

Global Delight Game Your Video

Adding special effects can make a boring video fun. Why not make the video-



Print from iOS The xPrintServer works with any ethernet-connected printer.



Turbo-charge your texting.

One keyboard

www.matias.ca/onekeyboard



Get Cash For Your Old iPhone!

Have you upgraded your iPhone?

We buy all models!
(from good condition to cracked or non-functioning)
The process is simple and convenient!

www.SellYourOldiPhone.com
recycle@sellyouoldiphone.com

editing process fun, too? Game Your Video uses a friendly interface that makes it entertaining to apply the effects (\$1; www.globaldelight.com).

i4software Video Camera Calling itself a "video studio in your pocket," Video Camera enables you to shoot, edit, and share your video in one app. What's more impressive about the app is its remote-camera feature, which lets up to eight shooters record an event at the same time; the footage can then be edited together on one iPhone (\$8; i4software.com).

Lantronix xPrintServer Wouldn't it be helpful if, when using an iPad at work, you could print to any printer on the network? With the xPrintServer, you can. This device connects to your router via ethernet, finds all the available printers on the network, and then makes those printers available to the iPad (\$150; www.lantronix.com).

RyzMedia blinQ This \$10 device plugs into your iPhone's headphone jack and,

with the blinQ TV app, turns the iPhone into a remote control for your TV. The app has social networking features, letting you post to Twitter or Facebook so your friends can see what you're watching and tune in as well (www.blinqtv.com).

Smile PDFpen for iPad Like the Mac version, PDFpen for iPad is a feature-filled app that lets you annotate and edit PDF documents. You can also import images from your photo library and place them in PDFs. It can store files in iCloud, Dropbox, Google Docs, and Evernote (\$10; www.smilesoftware.com).



Studio Mic The Spark Digital connects to an iPad or a Mac.

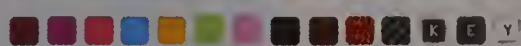
Spark Labs TourWrist This free iOS app isn't just another panoramic photo app. If you move your iPhone or iPad, the panoramic photo moves in tandem with the device. You can create 360-degree tours of locations, and then share them with others on the TourWrist website (tourwrist.com).



Giving you 33 different ways to increase your touchscreen typing speed.

ZAGG[®]folio[™]



 WWW.ZAGG.COM

BUILT-IN STAND | REMOVABLE BLUETOOTH[®] KEYBOARD | 33 DIFFERENT COMBINATIONS

Apple CEO 'Outraged' at Reports of Mistreatment

BY JOEL MATHIS



Apple CEO Tim Cook says he is "outraged" by a series of *New York Times* reports of alleged worker mistreatment at Chinese factories that assemble

iPhones, iPads, and other devices.

"We care about every worker in our worldwide supply chain," Cook wrote in an email to Apple employees. "Any accident is deeply troubling, and any issue with working conditions is cause for concern. Any suggestion that we don't care is patently false and offensive to us. As you know better than anyone, accusations like these are contrary to our values. It's not who we are."

The *Times* painted an unflattering picture of Apple's China operations in a series of reports in January, depicting "Foxconn City"—a Chinese manufacturing hub named for the contractor that builds Apple's iOS devices, among other electronic gadgets—as a company town where employees live in barracks and work 12-hour shifts, six days a week, for less than \$17 a day.

Allegations of human rights abuses at its China suppliers have dogged Apple in recent years. In response, the company has joined the Fair Labor Association and created its own annual Supplier Responsibility Progress Report to document such problems and efforts to correct them at 156 of its suppliers. The company says that it has trained more than 1 million workers at its suppliers in Apple's code of corporate conduct.

"We are focused on educating workers about their rights, so they are empowered to speak up when they see unsafe conditions or unfair treatment," wrote Cook.

Browett Takes Over Apple Retail

BY LEX FRIEDMAN

Apple has hired John Browett as the senior vice president of retail, reporting directly to CEO Tim Cook. Browett had served as the CEO of the European technology company Dixons Retail since 2007.

Apple says that Browett will be responsible for the company's retail strategy, including Apple's "continued expansion of Apple retail stores around the world."

Browett's résumé also includes stops at Tesco, where he served as the CEO of Tesco.com, along with an earlier role at the Boston Consulting Group. He graduated



from Cambridge University, with an MBA from the Wharton Business School.

Browett replaces Ron Johnson, who served at Apple from January 2000 until late last year. Johnson is now the CEO for J. C. Penney.

Macs: Current Lineup

PRODUCT	SPECS	RATING	PRICE	DISPLAY	SPEED-MARK 7 ^A	FIND CODE ^B
DESKTOP						
iMac 	Intel Core i5/2.5GHz (quad-core)	★★★★	\$1199	21.5 inches	211	7197
	Intel Core i5/2.7GHz (quad-core)	★★★★	\$1499	21.5 inches	229	7198
	Intel Core i5/2.7GHz (quad-core)	★★★★	\$1699	27 inches	225	7199
	Intel Core i5/3.1GHz (quad-core)	★★★★	\$1999	27 inches	241	7200
Mac Mini 	Intel Core i5/2.3GHz	★★★★	\$599	not included	132	7429
	Intel Core i5/2.5GHz	★★★★	\$799	not included	161	7430
Mac Pro 	Intel Xeon/2.8GHz (quad-core)	★★★★	\$2499	not included	219	6458
	Intel Xeon/2.4GHz (eight-core)	★★★★	\$3499	not included	235	6459
	Intel Xeon/2.66GHz (12-core)	★★★★	\$4999	not included	n/a ^C	6460
PORTABLE						
MacBook Air 	Intel Core i5/1.6GHz, 64GB	★★★★	\$999	11 inches	146	7425
	Intel Core i5/1.6GHz, 128GB	★★★★	\$1199	11 inches	152	7426
	Intel Core i5/1.7GHz, 128GB	★★★★½	\$1299	13 inches	166	7427
	Intel Core i5/1.7GHz, 256GB	★★★★½	\$1599	13 inches	162	7428
MacBook Pro 	Intel Core i5/2.4GHz (dual-core)	★★★★	\$1199	13 inches	146	7532
	Intel Core i7/2.8GHz (dual-core)	★★★★½	\$1499	13 inches	164	7533
	Intel Core i7/2.2GHz (quad-core)	★★★★	\$1799	15 inches	190	7534
	Intel Core i7/2.4GHz (quad-core)	★★★★	\$2199	15 inches	219	7535
	Intel Core i7/2.4GHz (quad-core)	★★★★	\$2499	17 inches	216	7536

n/a = not available. ^A Speedmark 7 is Macworld Lab's standard test tool for benchmarking systems running Mac OS X 10.7 (Lion). For more information on Speedmark testing, go to macworld.com/7487. ^B In a browser's address field, typing in a find code after macworld.com/ takes you to a product's review or overview. ^C This system has not yet been assigned a Speedmark score.

Best DVD and Blu-ray Copy Software



Fengtao Software
2003-2012
Product Brand: DVDfab
Total Downloads :
40,000,000

DVDFab

DVD/Blu-ray Copy for Mac

Constant Upgrade and Timely Tech Support

2 Month Free Trial

Coupon Code : MACWORLD

VISIT dvdfab.com/macworld.htm to
TRY IT FREE for 2 months and receive
EXCLUSIVE 30% discount for all Macworld readers now!



Follow **over 40 million** users
to be a DVDFab DVD/Blu-ray Copy for Mac lover,
and get your DVD/Blu-ray backup with no bother.

There's no real queen in the DVD/Blu-ray backup world, until I met her...DVDFab DVD/Blu-ray Copy for Mac, which backs up your DVD in a quarter and Blu-ray in less one hour!

With its powerful copying and burning tools, you can:

- * Backup entire DVD/Blu-ray disc (Main Title only) to ISO files or blank discs
- * Clone 1:1 DVD/Blu-ray movie by a few clicks
- * Homebrew Lightning-Recoding tech to speedup compression
- * Merge DVD TV play series onto fewer blanks
- * Split DVD 9 disc onto two blank DVD 5 discs

Start your 2-month free trial NOW at: dvdfab.com/macworld.htm



DVDFab

©2003-2012 Fengtao Software Inc. All Rights Reserved. All other trademarks and logos used are the property of their respective owners.

MAC GEMS

Discover Great, Low-Cost
Mac Products **By Dan Frakes**

AUDIO

Piezo 1.1.1

🔊🔊🔊; \$10; ROGUE AMOEBA; WWW.ROGUEAMOEBA.COM

If you've ever wanted to record audio from a particular program—a Web browser, a streaming-audio client, an audio-chat app, or OS X's DVD Player—Piezo does the trick, letting you record virtually anything you can hear on, or connect to, your Mac.

The program's compact, retro-look window shows only a few elements: left- and right-channel level meters, a few basic controls, a recording timer, and the name of the current recording. Click the Source pop-up menu to choose your audio source—it lists a few commonly used apps, along with any audio devices connected to your Mac's USB ports and analog or digital inputs. If the app you want to record from isn't listed, either drag the desired application's icon into the Piezo window or choose Other Application and manually navigate to that application. (Because of Mac OS X and App Store limitations, if you choose a program that's already running, Piezo

must quit the app and relaunch it to capture its audio.)

Next, click the recording-name field to enter a name and, optionally, a comment. You can also choose the recording quality and format. Click the big Record button to begin recording.

While you're recording, the timer displays the total recording time, and Piezo's level meters, Dock icon, and Record button light up. When you're done recording, click the Record button again; your audio file is immediately revealed in the Finder.

Piezo is also useful for recording audio from Voice-over-Internet (VoIP) apps such as iChat, FaceTime, and Skype, as the



program helpfully records local audio (your voice) to the left channel and remote audio (the voices of other people) to the right channel. You can then open the resulting audio file in an audio-editing app and work with the local and remote audio independently. For simple “grab this app's audio” recording, Piezo is tough to beat and easy to use.

FINANCE

Chronicle 4.1.3

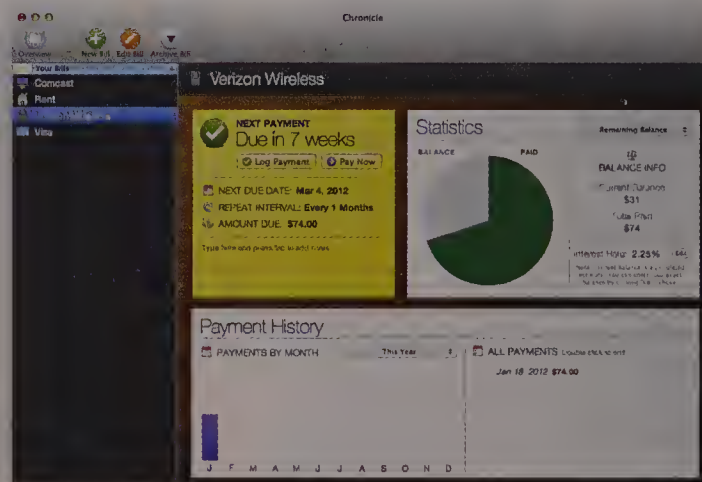
🔊🔊🔊; \$15; LITTLEFIN; WWW.LITTLEFIN.COM

In today's increasingly paperless society, it's easy to forget which bills are due when. Chronicle lets you enter your bills and their due dates, and then does the tedious work of reminding you to pay them. (It doesn't actually pay your bills—you have to do that yourself.)

Chronicle's visual style almost makes entering bills fun, and its attractive calendar views and large, color-coded pie charts make it easy to track bills. You can also track year-over-year spending and credit card debt. When entering bills, you

can attach scanned receipts, and an optional add-on, Chronicle Mini, lets you enter bills or mark them as paid with a click in the menu bar.

The app uses iCal to provide reminders, and those reminders offer one-click access to each vendor's website (provided that you supplied the URL when you created the reminder). Chronicle can optionally store its data in iCloud or Dropbox.



Chronicle doesn't offer a way to track all of your debts at once, nor does it give you much control over entering monthly income. But it's one of the slickest finance apps for the Mac.—BRENDAN WILHIDE

TEXT EDITING

Marked 1.3.2

★★★★½; \$4; BRETT TERPSTRA; BRETTTERPSTRA.COM

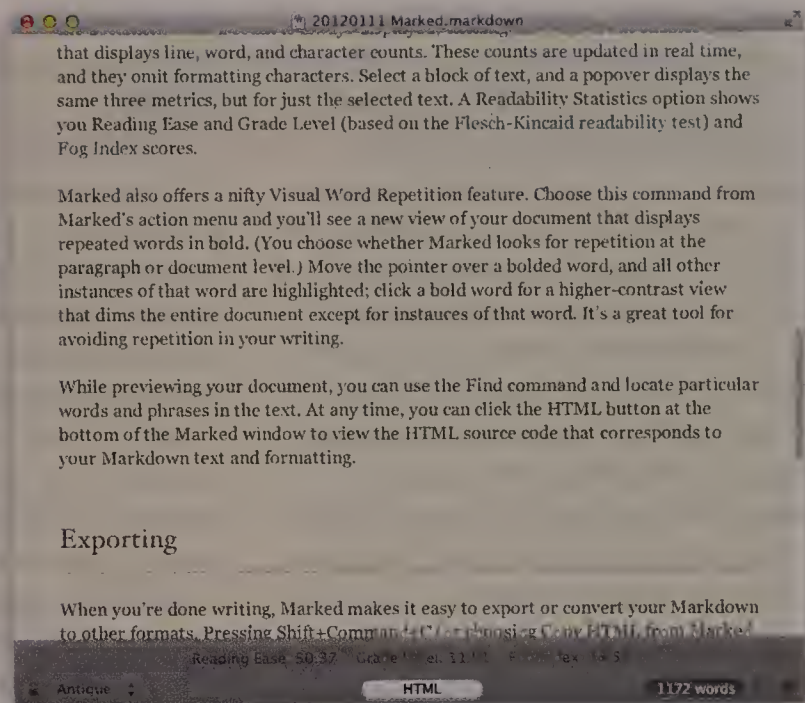
For lovers of Markdown (daringfireball.net/projects/markdown)—a nifty markup language that lets you write for the Web using plain text and a simple formatting syntax—Marked is a handy complement to your favorite text editor that shows a live preview of what your Markdown document will look like when rendered in HTML. (Marked also supports plain text, HTML, and MultiMarkdown.)

Marked offers several preview styles, and you can add your own CSS templates. You can quickly switch between styles—say, the standard and mobile versions of your website—using keyboard shortcuts, and Marked lets you quickly jump to any header in a document, as well as navigate between arbitrary bookmarks you add.

While previewing a file, Marked displays the word count and, optionally, the line and character counts (of the document or just selected text). A Readability Statistics

option shows you Reading Ease and Grade Level (based on the Flesch-Kincaid readability test) and Fog Index scores. A unique Visualize Word Repetition feature helps you avoid repetition in your writing.

Click the HTML button to view the HTML source code that corresponds to your document. You can also generate HTML and copy it to the clipboard; copy part or all of the rendered preview for pasting into any Rich Text Format document or email message; save the



document's rendered HTML code to a new HTML document; save the rendered preview to an RTF file; print the preview; or save the preview as a PDF.

PROMISING PROSPECT

Clipboard Cleaner

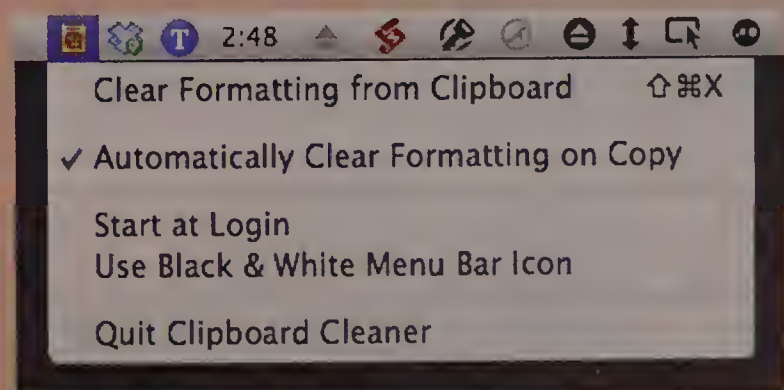
\$1; MOBILE VISION SOFTWARE GROUP; MACWORLD.COM/7669

Have you ever copied text from a webpage, formatted document, or PDF and pasted it into a document of your own, only to find that the text appears with all the original formatting—font, size, bold, italics, and what have you—when all you wanted was plain text? Similarly, have you ever selected items in the Finder with the intent of pasting their names in a document or email, only to have the items' icons—or, worse, the actual files and folders themselves—pasted instead?

Some, but not all, Mac apps include a Paste & Match Style option (or a similar feature) that ignores formatting and copied files and images, but Clipboard Cleaner provides a single format-stripping command across all apps: Just choose Clear Formatting From Clipboard from the utility's system-wide menu, or press ⌘-Shift-X.

Alternatively, if you enable Automatically Clear Formatting On Copy, Clipboard Cleaner automatically strips formatting and nontext content whenever you copy content to the clipboard, without requiring any action on your part.

Because you can configure it to work in the background, I wish Clipboard Cleaner offered a way to hide its menu-bar icon. I also wish you could pick your own keyboard shortcut for manual cleaning (⌘-Shift-X is a variation on the system's own Cut shortcut, ⌘-X, which I find confusing). Finally, I'd like a simple way to preserve formatting and nontext content for a particular copy action when you have automatic cleaning enabled. I hope to see these kinds of options in future updates, as Clipboard Cleaner is otherwise quite useful.



TEXT EDITING

iA Writer 1.2

■■■■; \$20; INFORMATION ARCHITECTS; WWW.IAWRITER.COM

Looking for fewer distractions when writing? iA Writer can help, providing a blank virtual page—there are no toolbars to fiddle with, no options to change, no preferences to tweak. You're even limited to a single font, in one size, with preset line spacing, unjustified lines, and 64 characters per line on a light-gray background.

To further help you focus, full-screen mode shows you nothing but the text you're writing on a gray background, and a focus mode spotlights the current sentence—it displays the sentence you're typing in black, with the rest of the text in a medium gray. (I'd prefer if focus mode highlighted the current paragraph, but some people will appreciate iA Writer's extreme approach.) The program displays live word and character counts, along with

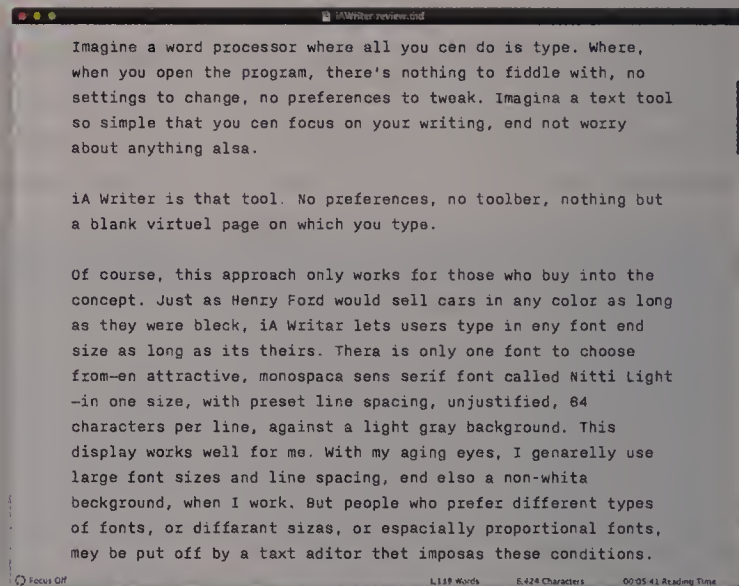
an estimate of how long it would take someone to read your text.

iA Writer uses Markdown syntax for underlining (*), bold (**), and headers (#), letting you apply such formats without having to use menus or buttons.

You can save locally on your Mac, or to iCloud or Dropbox. Documents you save to iCloud or Dropbox using the Mac version of iA Writer can be accessed from the iPad version and vice versa.

iA Writer's bare-bones interface isn't for everyone, but its inflexibility is also its

biggest asset. If you buy into this super-simple approach, you won't want to change anything about it.—KIRK MCELHEARN



"My boss is gonna love this."

"I reorganized all our files by size and color!"

A small business simply cannot afford the time required to track down critical misfiled documents - and relying on your employees to always do it correctly is a non-starter.

Work smarter - a FiledRight system stores your scanned or electronic documents securely on a shared Mac server, indexed in a real database using metadata you select.

Find any document in seconds, because it is...



www.fileddright.com

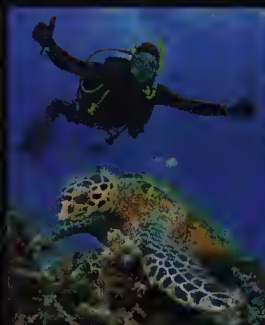
Works seamlessly with your ScanSnap™ or other quality **FUJITSU** scanner

MacMania™ 15

Australian Eclipse
November 7-21, 2012



InSightCruises.com/Mac-15



Parkes Observatory



CO-PRODUCED BY:

Macworld

InSight Cruises
THE JOURNEY WITHIN

CST# 2065380-40

TEXT EDITING

PopClip 1.2.3

🍎🍏🍎; \$5; PILOTMOON SOFTWARE; PILOTMOON.COM

PopClip brings to the Mac OS an iOS-like approach to working with selected text. While Mac users are divided on the question of whether the growing overlap between Mac OS and iOS is a good thing, PopClip is useful enough for those on both sides of the debate to appreciate it.

With PopClip running, anytime you select text, in any application, you get an iOS-like popover with options appropriate for the context. For example, if you select read-only text (such as in a Web browser or an incoming email message), the popover offers options to use that text in your default search engine, copy the text, or—if you've selected a single word—get its definition. If the text includes one or more URLs, a single email address, or a file path, you also get

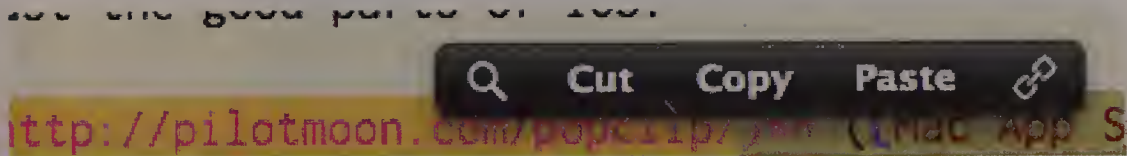
options to open the URLs in your default browser, send a message to that email address, or reveal that file in the Finder, respectively. If a selected word is misspelled, a popover offers suggested replacements. Click any action in the popover to choose it.

PopClip also makes it easier to cut and paste text. If selected text is editable, the popover includes the option to cut; if you previously copied text using PopClip, you also get the option to paste the contents of the clipboard. Similarly, if you've copied text using PopClip, clicking

anywhere in an editable document brings up a Paste popover.

Choosing PopClip's definition option launches OS X's Dictionary app rather than using its less disruptive definition popover. Also, I'd love it if PopClip would also work when you've selected text using the keyboard. Still, for the many Mac users who are mouse- or trackpad-focused, PopClip is unique and useful.

Check out the **Mac Gems blog** at macworld.com/macgems.



MACALLY

ALL NEW ACCESSORIES

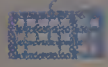
for iPhone 4S + iPad2



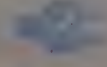
UNISTRIP



CAR ACCESSORY



KEYBOARD



POWER SOLUTION



UNISTRIP

Portable Power Strip
with USB 2.0 Hub & Charger

MAGSTAND2

Magnetic Cabinet Mount
& Viewing Stand for iPad2



LDOCK

Universal & Charging Dock
for iPhone 4S + iPod touch



www.macally.com

Macworld **HOT STUFF**

What We're Raving
about This Month



Einstein Mimobot

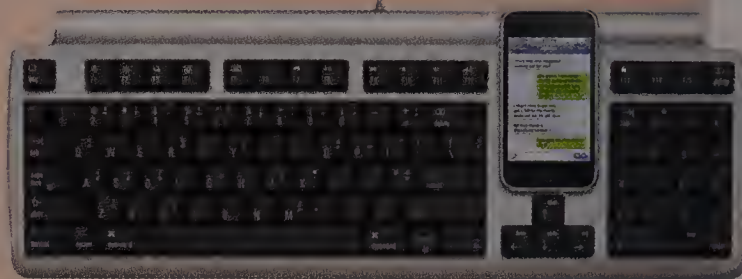
Mimoco, maker of whimsical flash drives, introduced the Einstein Mimobot as the first product in the company's new Legends line, with capacities ranging from 2GB (\$23) to 64GB (\$120). The Legends line will be based on famous people, with Albert Einstein the first to be honored. With the cap on the drive, Einstein has that familiar stoic look on his face, but remove the cap and you'll find a variation of Arthur Sasse's famous photo. The drive also comes preloaded with wallpapers that feature imagery of the drive itself, as well as a set of icons you can use on documents and drives, and avatars you can use online. For \$6, you can buy a ProtoHoodie, a soft fabric case that protects the drive and lets you attach it to a keychain. Mimoco wouldn't say who else it plans to Mimobot, but the company is confident that the public will like the people it picked (mimoco.com).

—MAURICIO GRIJALVA

Tactile One Keyboard

Matias's \$200 Tactile One keyboard has a designated button that toggles the keyboard back and forth between a Mac and an iPhone. Additionally, it has three USB 2.0 ports, an in-keyboard stand for your

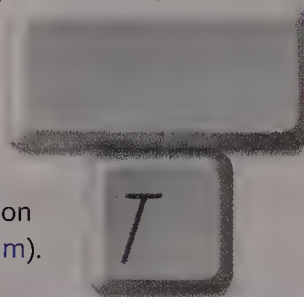
iPhone, and a special technology called *n-key rollover*, which allows keyboard input to keep up with fast typists. The keyboard connects to the Mac via USB and uses Bluetooth to connect to the iPhone (www.matias.ca).—LEAH YAMSHON



Typinator 5.0.1

Ergonis Software's text-expansion app is useful if you're tired of typing the same thing over and over again. Typinator replaces keywords you type in with phrases you've defined. The software now offers scripting support, which enables users to take advantage of computed script results in text expansions. Also included in the update are pocket calculator functions in the Quick Search Fields, improved handling of fast typing, more-robust handling of special cases for placeholders, and a number of bug fixes. A single license is €25; the upgrade from the previous version is €13 (ergonis.com).

—DAN MOREN



Screen Ruler 2.1

Sprightly Software's \$10 utility is a set of tools for working with on-screen graphics. The Box Measurement tool provides the exact pixel width and height of an area. The Line Measurement tool measures the distance between two pixels in different parts of the screen. The color picker provides data for hex colors. The Grab Image tool lets you take screenshots. The latest version provides menu-bar access; better implementation on multiple displays; the option to display measurements in inches, millimeters, centimeters, or pixels; a new user interface; and bug fixes (screenruler.com).—ROMAN LOYOLA



DOXIE GO + WIFI

This \$239 single-sheet simplex (scans one side at a time) scanner from Apparent allows you to scan documents wirelessly—no USB connection required. It also has a rechargeable battery and on-board flash memory that can hold up to 600 scans, and you can increase the Doxie Go's capacity with a USB thumbdrive or an SD Card inserted in the proper slots. The scanner includes a 4GB Eye-Fi card that lets you send your scans directly to Evernote, Dropbox, or Flickr. You can sync scans wirelessly to an iPad or iPhone with a free app (itsapparent.com).—JAMES GALBRAITH



Power up to win 1 of 7 APCTM
BR700G Battery Back-UPSTM
units (a \$130 value)!



Key Code
m342v
www.apc.com/promo
888-289-APCC x8385
FAX: 401-788-2797

Name: _____ Title: _____
Company: _____
Address: _____ Address 2: _____
City/Town: _____ State: _____ Zip Code: _____ Country: _____
Phone: _____ Fax: _____
e-mail: _____

☐ Yes! Send me more information via e-mail and sign me up for the Uptime e-mail newsletter. Key Code: m342v

What type of availability solution do you need? ☐ UPS: 0–16kVA (Single-phase) ☐ UPS: 10–80kVA (3-phase AC)
☐ UPS: 80+ kVA (3-phase AC) ☐ DC Power ☐ Networking Enclosures & Racks ☐ Air Conditioning ☐ Cables/Wires
☐ Monitoring & Management ☐ Line Conditioning ☐ Mobile Protection ☐ Surge Protection ☐ UPS Upgrade ☐ Don't Know

Purchase time frame? ☐ < 1 Month ☐ 1–3 Months ☐ 3–12 Months ☐ >1 Year ☐ Don't Know

You are (check one) ☐ Home/Home Office ☐ Business (<1000 employees) ☐ Large Corporation (>1000 employees)
☐ Government, Education, Public Organization ☐ APC Sellers and Partners





NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST-CLASS MAIL

PERMIT # 36

WEST KINGSTON RI

POSTAGE WILL BE PAID BY ADDRESSEE

APC

ATTENTION CRC: m342v
132 FAIRGROUNDS RD
PO BOX 278
WEST KINGSTON RI 02892-9920



Macs can do just about anything.



Now, it can even run without power.

Introducing the reinvention of backup power—the APC Back-UPS: unsurpassed protection for iMac and more.

Reliable power backup for 24/7 availability

Whether creating digital projects, updating your Facebook® status, or working furiously to meet a deadline, you depend on your iMac every day, all day. That's why APC by Schneider Electric™ has designed battery backup units that protect that uninterrupted availability you expect from your iMac. Introducing the reinvention of backup power protection: the APC Back-UPS!

Energy-efficient protection for peace of mind

When the power goes out, our Back-UPS™ units go to work. They instantly switch your iMac to emergency power, allowing you to work through brief power outages or safely shut down so you won't lose valuable files. They also feature surge outlets to safeguard your electronics and data from "dirty" power and damaging power surges—even lightning. Plus, their energy-efficient design reduces electricity use, so you start saving money the minute you plug in a Back-UPS. And power-saving outlets automatically shut off power to unused devices when your iMac is turned off or on standby, eliminating wasteful electricity drains.

Trusted insurance for what matters most

Our units protect your iMac® and much more, including MacBook®, wired and wireless networks, DVRs, gaming consoles, and external storage devices. APC Back-UPS is the trusted insurance you need to stay up and running and protected from unpredictable power and energy waste!



Power up to **WIN 1 of 7 APC BR700G Battery Back-UPS units (a \$130 value)!**

Visit www.apc.com/promo Key Code **m342v** • Call 888-289-APCC x8385 • Fax 401-788-2797



Keep your electronics up and your energy use down!

Back-UPS models are available with the features and runtime capacity that best suit your application, and many models have been designed with power-saving features to reduce costs.

The High-Performance Back-UPS Pro Series

High-performance Back-UPS Pro units deliver cost-cutting, energy-efficient features. Power-saving outlets automatically shut off power to unused devices when your computer is turned off or is on standby, eliminating wasteful electricity drains.

(BR700G shown above)

The energy-efficient ES 750G

The Back-UPS ES 750G boasts innovative power-saving outlets, which automatically shut off power to unused devices when your computer is turned off or is on standby, eliminating wasteful electricity drains.

- 10 Outlets • 750 VA/450 Watts
- 70 Minutes Maximum Runtime
- Coax and Telephone/Network Surge Protection



The best-value ES 550G

The Back-UPS ES 550 uses an ultra-efficient design that consumes less power during normal operation than any other battery backup in its class, saving you money on your electricity bill.

- 8 Outlets • 550 VA/330 Watts
- 43 Minutes Maximum Runtime
- Telephone Surge Protection



APC™

by Schneider Electric

Optimized Ebooks Impress in iBooks 2

Apple's updated mobile e-reader brings an immersive experience to the iPad—with some flaws

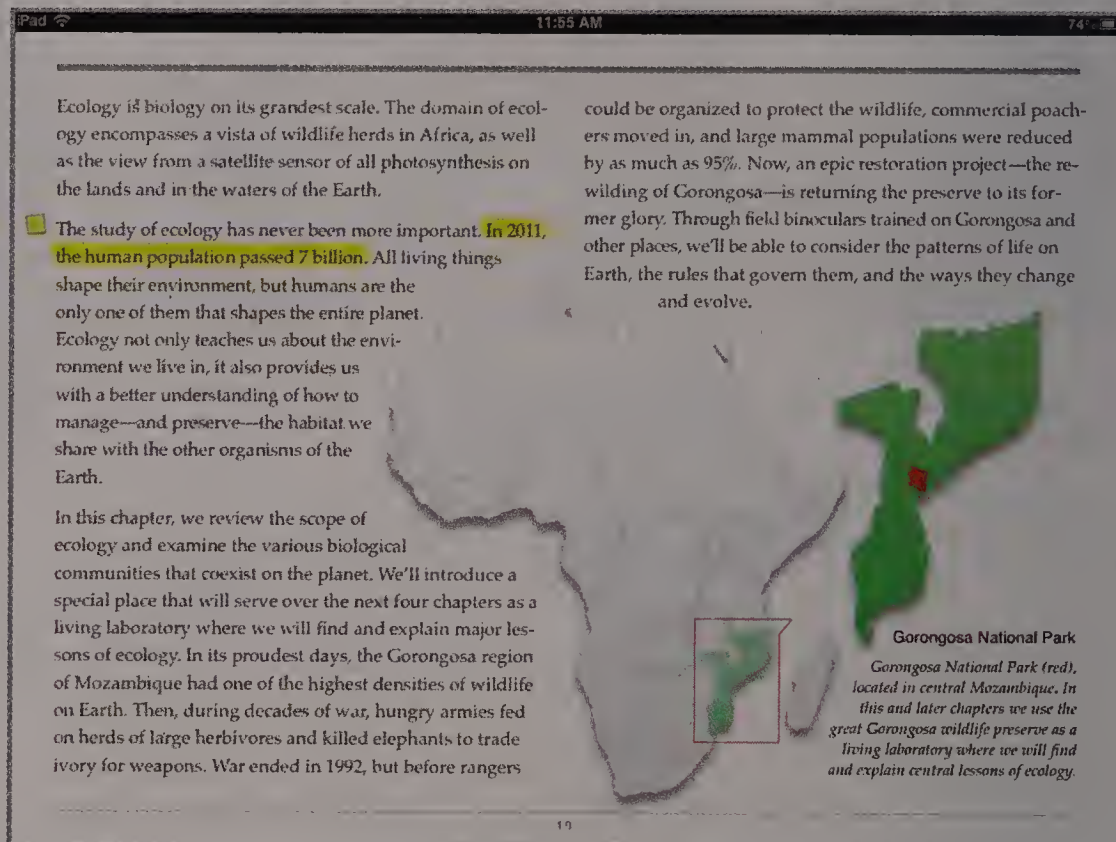
BY LEX FRIEDMAN

REVIEW

If you use iBooks on either the iPhone or the iPod touch, you won't find any improvements in version 2 of Apple's mobile ebook reader. But don't conclude that iBooks 2 is a minor update; rather, this version introduces support for interactive textbooks on the iPad.

As a result, iBooks on the iPad now feels a bit like two apps smushed together. There's the iBooks of old, for reading basic books with text and images; and then there's iBooks 2, for reading and interacting with the new, multimedia-laden books created with the iBooks Author app for the Mac. (Read our review, "iBooks Author Fashions Multimedia Texts," in *Create*, page 74.)

Optimized ebooks are much larger than traditional ebooks. Tolstoy's 1300-page *War and Peace*—at 2MB—downloaded to iBooks in about five seconds on my iPad. E.O. Wilson's *Life on Earth*, an optimized textbook of which just 51 pages are available, is a hefty 965MB file that downloaded in about seven minutes. It's not surprising that textbooks crammed with



iBooks 2 Highlights In an optimized ebook, you highlight text by tapping and sliding your finger across it. Tap the icon in the margin to access any notes you add.

showing a skeuomorphic bookbinding as you read, is nowhere to be found when you're reading an optimized book. Gone

style or size when you're reading an optimized book, since that would mess up the formatting.

The good news when it comes to reading optimized ebooks in Apple's iBooks 2 is that they really are beautiful.

3D models and movies would be huge, but it's something to keep in mind if you have a 16GB iPad or a slow Internet connection.

Font Features

The good news about optimized textbooks like *Life on Earth* is that they really are beautiful. The original iBooks theme, which wasted screen real estate by

too are the overwrought page-turning animations: Pages simply slide into view as you swipe—it's very similar to the Kindle app's page-turning experience (👉👉👉; macworld.com/6020).

Because of how carefully laid out these optimized ebooks must be, the ebooks themselves aren't as flexible as regular ebooks. You can't adjust the font

The sole exception to this font-manipulation limitation occurs when you rotate your iPad from landscape to portrait. When you do that, you bid farewell to the ebook's fanciful layout, and instead get a view more akin to one that Instapaper or Safari Reader might provide. All the interactive elements get pulled out to the left margin, with the text flowing across the rest of the screen. Instead of turning pages, you simply keep swiping vertically—again, just as in Instapaper.

In this view, you can freely adjust the font and font size. In most of the

textbooks I sampled, the font size used in the fancier landscape view was readable, but smaller than my old-man eyes might prefer for lengthy reading; the ability to adjust the font size in portrait mode is a welcome nicety.

Highlights and Notes

When you're reading optimized ebooks, you get access to iBooks' new highlighting features. All you need to do is tap and drag over text to highlight it. Tap the highlighted text to change its highlight color (or switch to underlining) or to add a note. When you're reading a regular book, the tap-and-drag gesture merely selects the text, at which point you can choose whether to highlight it.

To select text in optimized books, you can either double-tap, or tap and hold without moving your finger, until the selection interface appears. Only by selecting text—as opposed to highlighting it—can you bring up the option to see a word's inline definition.

When you add a note to highlighted text, a sticky note-style icon appears in the page's margin. Delicate-fingered folk should have no problem tapping this tiny icon; others might accidentally turn the ebook's page if their tap inadvertently lands elsewhere in the margin.

Optimized ebooks offer a Notecard view. This new view creates virtual notecards, with your highlighted text on one side and your notes on the other. You can shuffle the notecards to test yourself on their contents, and even limit the cards to those with highlights of a specific color. And you can optionally include glossary terms from the book in the notecards—words on one side, definitions on the other. It's a shame you can't use notecards to study notes taken in regular ebooks—and I can't imagine the limitation is a technical one; Apple has simply chosen to make the notecards feature available only for optimized ebooks.

Notecards do suffer from one frustrating oversight: You can't jump from a notecard directly to the highlighted text in the ebook itself. You can do so from the more traditional notes view, and it's a great way to dive into the

book when you're reviewing your notes. Apple at least includes the page number as a reference on the notecards, and since iBooks 2 introduces the ability to use the search field to jump to a specific page, all is not lost. But a direct link from card to associated book page would eliminate a couple of steps.

In an optimized ebook, a two- or three-finger pinch takes you from your current page back to the chapter overview screen. That screen provides links to subsections within the chapter, along with thumbnail-based page navigation. In a regular ebook, you must instead tap to bring up the menu, tap the navigation icon, and then tap again for the table of contents.

Regular versus Optimized

Besides their far smaller file size, regular books in iBooks offer a significant advantage over their fancier brethren—a small text indicator stating how many pages remain in the current chapter. One key advantage paper books hold over ebooks is the ease with which you can flip ahead to find a good stopping point; the “pages left in this chapter” indicator offers an excellent digital alternative—and it's nowhere to be found in optimized ebooks.

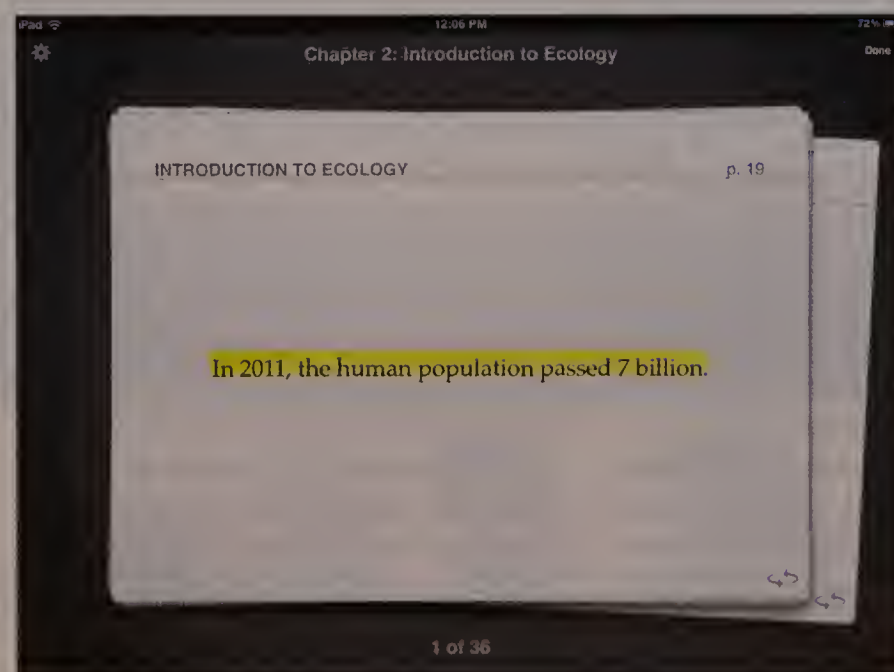
Additionally, I've never once had iBooks crash on me while I was reading regular ebooks. But with the initial release of iBooks 2.0, I experienced a

couple of crashes that required me to force-quit the app to get back to reading. The iBooks 2.0.1 update released in early February seems to have addressed that crashing problem.

The other knock against optimized ebooks is their inability to operate on the iPhone. I realize converting multimedia-rich textbooks to such a small screen is a big task, but Apple should be able to offer some means—likely inspired by the portrait-view experience on the iPad. One of the huge advantages of ebooks is that you can read another couple of pages while you're, say, waiting in line or commuting without your iPad. Interactive elements might not be quite as easy to use on the iPhone, but that's far better than not having those elements at all.

That said, it's not complicated to read an optimized textbook in the app: Anyone familiar with an iOS device should mostly be able to navigate such a book without trouble. But you do need to examine each element on the page to know what it can do: Is an image just a photo, or is it a slideshow, a model, an animation, a video, or something else? The optimized ebook is a different way of reading—the experience feels much more like reading exquisite webpages than plain text. That's not good or bad, but it's undeniably different from traditional reading.

📖📖📖; free; Apple; macworld.com/6146



Study Aid

When it's time to study, iBooks 2 can assemble all your notes and highlights into a Notecard view. Highlighted text appears on one side of the notecard; notes appear on the other side.

Setting Location-Based Reminders in iOS 5

BY LEX FRIEDMAN

If you really want to make the most of Reminders—the basic task manager Apple introduced with iOS 5—you need to tap into the app's location-based features. Like the rest of the built-in app, location-based reminders are fairly straightforward, but you must master a few techniques before using them. This primer can help you with the basics.

Edit Your To-Do Details

Whether you want to add a specific time when Reminders should nudge you to perform a task, or you want the app to remind you about a to-do item at a specific location, just tap on a Reminders entry. From the Details screen that appears, you can tap Remind Me to schedule a time- or location-based reminder.

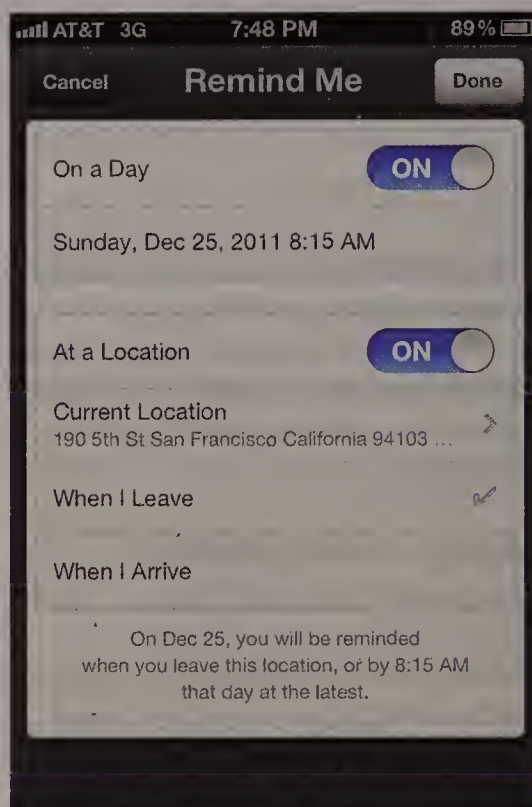
Use the Location Slider

Below the space for setting time-based reminders, you'll find a slider that lets you tie to-dos to a location. Slide the At A Location slider to On, and you can schedule your alert to sound when you arrive at or leave a specified spot. By default, Reminders assumes you want your reminder to relate to your current location. If you want it to remind you when you arrive at or leave somewhere else, tap Current Location; on the subsequent screen, tap Choose Address.

Set a Location

Here's where things can get a little tricky. Reminders limits location-based reminders to addresses that are listed in your contacts. Thus, you may end up adding some extra contacts, like work or school or your corner grocery—complete with their addresses, of course—so that you can more easily get Reminders to alert you to pick up certain items when you're near those establishments.

To do that, you're going to want to duck out of Reminders and launch Contacts. Tap the plus-sign button (+) at the upper



Pick a Place You can schedule Reminders to alert you at a specific time or when you arrive at or depart from a specific place—or a combination of both.

right. You can put the name of the school, workplace, store, or any frequently visited site in the Company field, add a phone number (or skip it), and then scroll down to the field marked Add New Address. Tap that, and then type the address of your frequently visited place. From now on, you'll be able to use your just-added business as a location for such a reminder. If you don't mind a slightly cluttered address book, such reminders are a great way to remember to buy lightbulbs when you're near Home Depot.

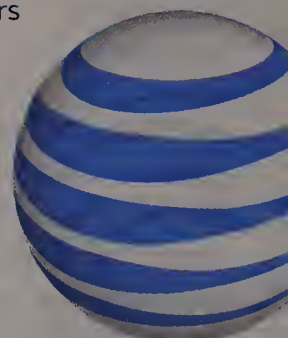
Use Siri

iPhone 4S owners can turn to their voice-activated assistant to set location-based reminders. Just say **Remind me to take out the garbage when I get home**, and Siri creates a reminder tied your arrival. Note that you still need to provide an address book location in order for Siri to issue location-based reminders.

AT&T Raises Rate Plan Prices, Data Limits

BY PHILIP MICHAELS

New AT&T customers can expect to see higher rates on their iPhone data plan. But they'll also get more gigabytes for their bucks.



Under a new plan that went into effect in January, AT&T's data plans now start at \$20 per month for 300MB of data for smartphone users. AT&T also offers 3GB of data for \$30 a month and a tethering plan with 4GB of data for \$50 per month.

In effect, that's a \$5 hike for all of AT&T's data offerings. But it also means you get substantially more data—previously, the standard AT&T plans included 200MB and 2GB of data, respectively, while the tethering package was capped at 4GB.

The reason for the increases? We're using more data. "Mobile broadband has become part of our daily lives," wrote Mark Collins, AT&T Mobility's senior vice president of data and voice products, in a blog post announcing the new plans, "and data usage has skyrocketed." AT&T expects that trend to continue as it deploys its higher-speed 4G LTE network across the United States.

Current iPhone users who already subscribe to AT&T needn't worry about their existing plans: The carrier says you can keep your current data plan rate (and its lower cap) if you don't care for any of the new options.

Wireless carriers keep a close eye on each other's moves, so it's worth paying attention to see if Verizon follows suit and ups the amount of data—and the prices—of its plans.

Meet our new iPhone 4 + 4S case.

IT'S LIFEPROOF.



WATER PROOF
SWIM SURF RAIN DRINKS



SHOCK PROOF
DROPS KNOCKS TUMBLES



DIRT PROOF
DUST SAND GRIT MUD



SNOW PROOF
ICE SNOW SLEET COLD

13.3 mm
Ultra-slim design

ACTUAL SIZE

WHAT WILL YOU DO
WITH YOUR LIFEPROOF?



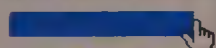
FIND OUT MORE

CONNECT WITH US AT:



lifeproof.com

AVAILABLE NOW AT



mobile

LifeProof's everyday, everywhere, everything case for iPhone 4 + iPhone 4S is sleek and slim while being tough and durable.

All the features of your iPhone are always accessible and it still easily slips into your pocket — so get your case on and *Let's Go!*



LIFEPROOF
LET'S GO!

LIFEPROOF
ACCESSORIES:



Mount Adapter compatible
with GoPro® mounts



Belt Clip



Bike+Bar
Mount



Arm Band

© LifeProof 2012. Designed by LifeProof. Cases: USA
iPhone is a trademark of Apple Inc. | GOPRO® is a registered trademark of Willard Labs, Inc.

Abvio's Fitness Apps to Get a New Look

BY PHILIP MICHAELS

With the 7.0 update to its line of iOS fitness trackers, Abvio is cleaning up its act.

Abvio offers a trio of GPS-enabled fitness apps for the iPhone for \$5 apiece—Cyclemeter (macworld.com/5935), Runmeter (macworld.com/5937), and Walkmeter (macworld.com/5936)—that record a wealth of data about your workout. Tap your way through one of Abvio's apps, in fact, and you can find around 150 data items covering everything from the speed of your run or ride to your heart intervals during your workout. The problem, Abvio cofounder Steve Kusmer concedes, is that data isn't always presented in the most accessible way.

"We have this great information," he said. "We needed a great way to display it."

That's the primary thrust of the changes slated for version 7.0 of the three apps, which should hit the App Store in March. Specifically, the

stopwatch display in Abvio's apps will be redesigned and tightened up so that it shows 30 percent more data with greater readability and contrast. More significant, beyond the stopwatch display are multiple panes of information that you'll be able to access with a simple swipe.



That last point is not an insignificant one. Whether you're riding a bicycle, jogging down the street, or hiking a trail, tapping a specific button can prove to be a bit of a challenge. Swiping, however, is easy to do without breaking stride.

The data displayed is configurable. You'll be able to change the order of panes or even stack route maps on top of graphs if that's what you prefer.

Other features planned for the 7.0 update include a built-in music player—also available via a swipe—and an updated workout history interface. The History tab lists recent workouts, with the ability to drill down to see summaries by week, month, or year.

SPOTLIGHT ON iOS ACCESSORIES

Willy

A few minutes with the Willy from Insanely Great Products will make you rethink your attitude toward suction cups (macworld.com/7661). The \$20 iPhone accessory comes with two of them, angled and attached to a base with a nonskid surface. Set the base on your desk, and you've got a capable iPhone stand that lets you prop up your iOS device in either landscape or portrait orientation. That second section cup comes into play when it's time to hit the road—attach it to your car's windshield, and you have an iPhone mount that's ideal for use with the GPS app of your choice.—LEX FRIEDMAN



What's New at the App Store



Soonr Scribble Offers Annotation, Collaboration

Online-storage provider Soonr has brought its Soonr Scribble (macworld.com/7658) annotation app to the iOS platform. The \$4 iPhone and iPad app lets you highlight, mark up, and otherwise annotate files in 35 different formats, including PDFs, Excel spreadsheets, Word documents, and Adobe Creative Suite files. You can save your annotations and share them with colleagues via this cloud-based service. The app comes with up to 5GB of storage.—DAN MILLER



Tapprr.tv Update Adds Voice Controls

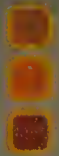
Deeje's free tapprr.tv app (macworld.com/7659) lets iPhone and iPad users create customized music visualizations for the songs in their music library—think lights and effects that appear in time with the music. Users can share their creations with the rest of the tapprr.tv community. The version 5.0 update enables the app to create visualizations based on voice commands in addition to touch controls.—KARISSA BELL



AntiCrop Fills In Missing Parts of a Photo

Adva-Soft's new \$1 AntiCrop app (macworld.com/7660) lets iPhone and iPad users extend and fill in the photos stored on their mobile devices. The app recognizes elements on the outer edges of a photo, replicates them, and adds border strips to the picture to enlarge it. As you move an image or change its dimensions, the app automatically fills in the missing areas based on what's already in the picture. AntiCrop also aids in photo straightening.—JACKIE DOVE

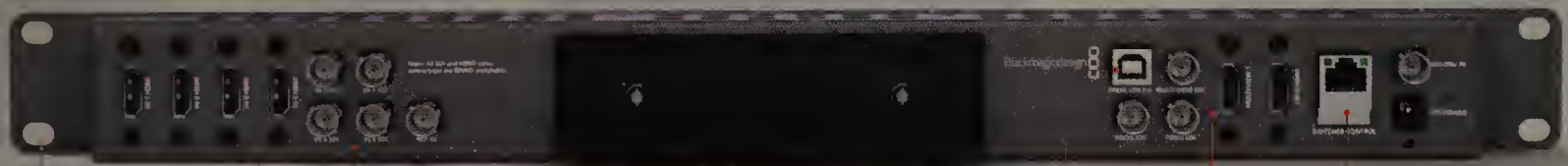
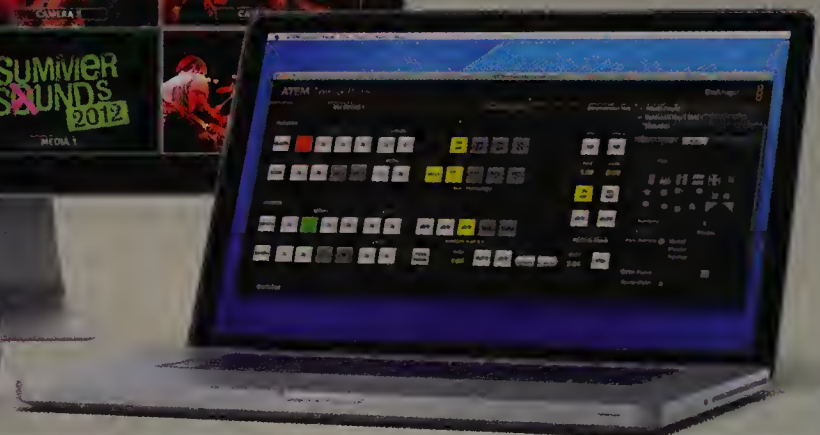
Blackmagicdesign



See all your cameras and program video output using a single TV with the built in multi view.

Includes control software for Mac and PC plus Photoshop plug ins for direct graphic downloads.

Consumer cameras are low cost and give you full 1080HD video! Imagine your event in full HD!



Rack mount design lets you install into road cases for portability.

HDMI inputs let you plug in HD video cameras or computers for slide shows!

You can even plug in broadcast cameras using the SD/HD-SDI inputs.

USB 2.0 connection lets you record direct to H.264 files for iPhone, iPad and web. Includes Media Express.

SDI and HDMI program outputs for sending your live program feed to your audience!

Ethernet lets you plug direct to your computer for control and uploading graphics.

If you've ever wanted to get into the television industry, then here's how!

Enter the exciting world of live television production with the new ATEM Television Studio! Simply plug in up to 8 cameras with HDMI or SDI connections and ATEM will re-sync the video and allow transitions, effects, graphics, animations, chroma keying, all completely live, and at the push of a button! Unlike editing software, live production is the most exciting, lowest cost, and fastest way to generate professional programs. You can even broadcast live to your audience and over the internet!



Live Creative Power

ATEM Television Studio operates as a professional M/E style switcher, so you can take your skills into any broadcast TV station! You get the most creative solution for live switching, with cut, mix, wipe, dip and more! You can even load graphics directly from Adobe Photoshop into the 2 built in media players for live keying!



Incredible Features

Only ATEM includes upstream chroma key for green and blue screen shooting. You also get pattern, shaped and linear keying, 2 downstream keyers, 2 built in media players and more! The built in multi view allows all cameras, preview and program to be viewed on a single SDI or HDMI monitor or television, so ATEM is perfect for portable location use! Now you can cover any live event, anywhere!



More Connections and H.264

ATEM Television Studio includes loads of SDI and HDMI connections for professional SDI cameras or HDMI consumer cameras! All inputs feature re-sync so you can plug in anything! You also get SDI and HDMI outputs, plus built in H.264 encoding for generating files for the internet, iPhone, iPad and more! Imagine live production direct to H.264 QuickTime files for instant viewing!



Built to Perform

ATEM uses a familiar M/E style of operation so you get an instantly familiar workflow that's fast and easy to use. ATEM includes a software based control panel for Mac and Windows! If you need a hardware control panel then simply add the ATEM 1 M/E Broadcast Panel for a true broadcast grade solution. Thousands of ATEM switchers are used today for live broadcast events such as sports, music festivals, drama, reality TV and much more!

ATEM Television Studio
\$995



Learn more today at www.blackmagic-design.com/atemtelevisionstudio

APP GUIDE

Software for Your iPhone, iPod Touch, and iPad

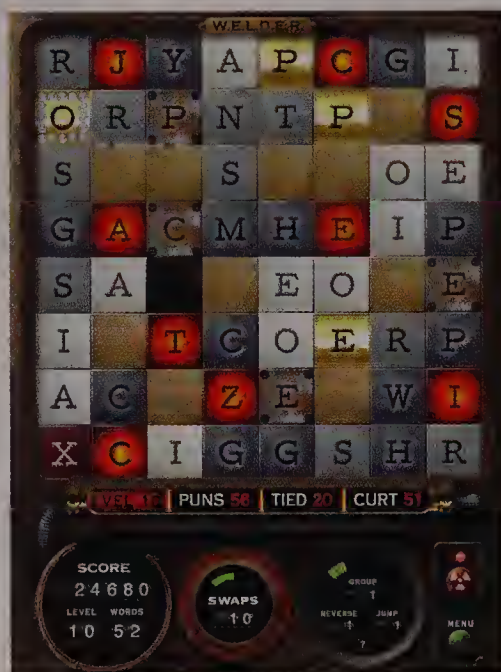
Find My Friends

UTILITIES Just as Find My iPhone (★★★★½; macworld.com/7087) helps you locate your iOS devices, Find My Friends can find your friends' iPhones and iPads—and, more to the point, the people carrying those devices. The app lets you and your friends share location information, displaying that data on a map. The locations aren't always precise, but the app provides handy ways to send an iMessage, initiate a FaceTime call, or get directions to where your friends are located. The app particularly shines with its event-based sharing for planning excursions and coordinating locales.—**DAN MOREN**
iPhone/iPad | ★★★★; free; Apple



Screens 1.7.1

UTILITIES Many apps for controlling a remote computer are clunky. Not Screens, which offers unique features that make controlling remote computers from an iOS device nearly painless. Screens offers useful tools for working on a remote computer while using a touchscreen: A Pull-to-Dock feature reveals a hidden Dock with a swipe, and a specialized keyboard sports shortcuts for Spotlight, text selection, and other commands. Screens ignores the cursor on your remote screen, responding instead to where you tap on your iOS device.—**JEFFERY BATTERSBY**
iPhone/iPad | ★★★★; \$20; Edovia



W.E.L.D.E.R. 1.1.2

GAMES Combine a word search puzzle with Tetris, slap a steampunk interface on it, and you've got W.E.L.D.E.R., a word-formation game that's both addictive and instructive. You must create a specific number of words of four or more letters by swapping around available tiles. The fact that some tiles are immovable while others bring big bonuses adds to the challenge. Form a word and the letters vaporize, while new letters drop down to take their place. The game has a number of fine touches, including a dictionary that can track down the meaning of the obscure word you just formed.—**CHRISTOPHER BREEN**
iPhone/iPad | ★★★★; \$2; Ayopa Games

APP GEMS

Tower Defense Games



Legendary Wars ★★★★½

This medieval-era strategy game is actually a great mix of various genres (macworld.com/6970).



Jelly Defense ★★★★
macworld.com/7634

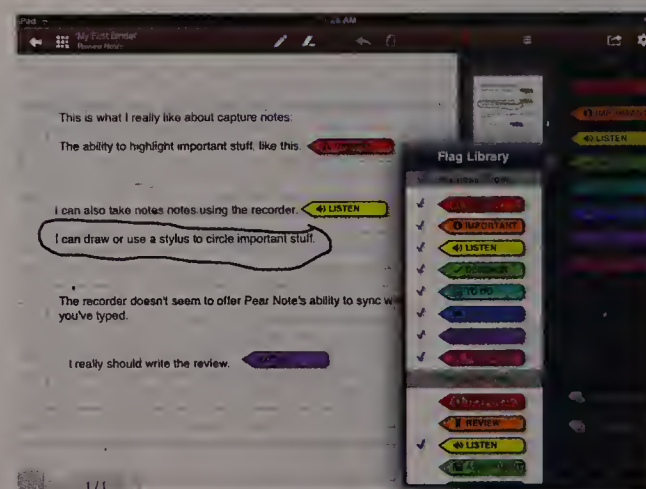


Trenches II for iPad ★★★★½
macworld.com/7635

Find other games at macworld.com/6179.

CaptureNotes 2 1.2.1

PRODUCTIVITY Add CaptureNotes to the ranks of premium note-taking applications for the iPad. Like many of its rivals, CaptureNotes 2 lets you make an audio recording of a lecture at the same time you're typing or writing your notes. You can also import PDFs and make annotations on top of the document. But CaptureNotes also lets you create notebooks for specific events, and "binders" that encompass a number of related notebooks. A color-coded flag system helps you see, at a glance, what entries are important and why. Flags also work in conjunction with audio features: Flag a note while recording a lecture, and you'll get a time stamp for that moment of the recording.—**JOEL MATHIS**
iPad | ★★★★; \$5; G8R Software



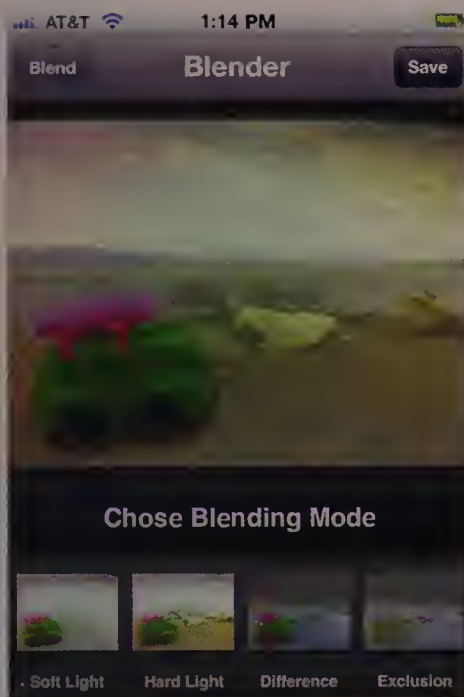


Image Blender 1.6.2

PHOTOGRAPHY All you need to know about Image Blender is right there in the app's name—with a few taps on your screen, you can have it blend two images together. You simply pick two images from your Camera Roll and adjust the app's built-in blending slider. But if you're looking to take some time to play around and create more-unusual results, Image Blender can certainly keep you entertained with its 18 different blending modes. For even more customization, the app lets you edit the photo masks and arrange the size, location, and angle of one image over the other.—**ALEXANDRA CHANG**
iPhone/iPad | ; \$2; Johan Andersson

Infinity Blade II 1.0.2

GAMES This sequel more than lives up to the original Infinity Blade (; macworld.com/6818). The way Unreal Engine renders the gaming environment remains spectacular, and the fighting mechanic is still front and center. Infinity Blade II also allows players to switch between different weapon setups. And with the game's easy-to-learn controls, you'll be hacking, slashing, and parrying in no time.—**CHRIS HOLT**
iPhone/iPad | ; \$7; Chair Entertainment Group



More Reviews

See more iPhone, iPad, and iPod touch apps we've tested at iOS Central (macworld.com/4164).

APPLICATION	DESCRIPTION	PRICE	RATING	FIND CODE*
HopStop 1.7 HopStop.com	public-transit navigation tool	free		7629
iMockups 1.3.1 Endloop Systems	iPad wireframe creator	\$7		7630
PicFrame 3 ActiveDevelopment	collage creator	\$1		7631
PirateFleet+ For Friends 2.4.0 UnitedToy	turn-based Battleship-style game	\$3		7632
WritePad 6.0 Stan Miasnikov	iPhone text editor	\$4		7633

* In a browser's address field, typing in a find code after macworld.com/ directs you to a product's review or overview. For example, macworld.com/7629 takes you to our review of HopStop.

ESSENTIAL APPS

Must-Have Productivity Tools

We recommend these productivity boosters for anyone new to the iOS platform (macworld.com/7628).

GoodReader for iPad This document reader lets you work with text, and with iWork and Office documents.

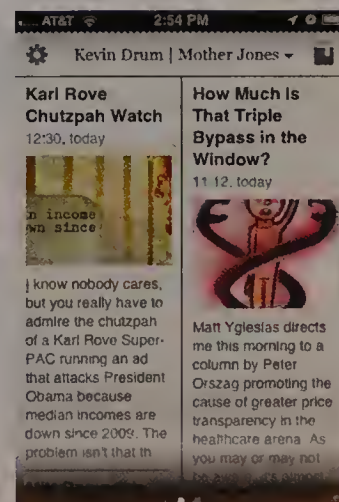
TextExpander Use this utility with other apps to quickly type frequently used text snippets.

Convert This app makes conversions easy.

Elements This elegant text editor offers Dropbox syncing.

Newstream 1.4

NEWS The best personalized news apps have largely been iPad releases, but Newstream brings that style to the iPhone and iPod touch. The app allows you to choose the news and blog RSS feeds you want to read, and then lets you thumb-swipe your way between feeds—it's as natural and intuitive as turning the pages of a book or magazine. Stories appear in an elegant two-column layout; open a story, and you're treated to an uncluttered Readability-style view of the contents.—**JOEL MATHIS**
iPhone | ; \$3; 2Billiard



App Guide

AppGuide.com features our complete database of iOS app reviews.



REVIEWS

Accessories and Add-ons
for Your iOS Devices

HARDWARE

Belkin TuneBase FM with Hands-Free

This auto accessory combines an iPhone cradle, charger, FM transmitter, and playback/call controls in a package that connects to your car's accessory outlet. It's a bit cumbersome to set up, and if you want the best audio quality, you'll want to use its audio line-out jack rather than its FM transmitter, but it's sturdy and secure.

★★★★½; \$100; Belkin; www.belkin.com



Incipio Bombproof Silicone Case for iPhone 4 and 4S

Although the Bombproof Silicone Case may not truly survive an explosion, this iPhone 4 case still affords plenty of stylish protection. Available in seven colors, the ridged rubber case offers a unique look, a good grip, and plenty of shock protection. The case is also easy to slip on and off. Incipio includes an adhesive thin-film screen protector. The case's biggest drawback is that, like most rugged cases, it adds a noticeable amount of bulk to your phone.

★★★★½; \$30; Incipio; www.myincipio.com



iSkin Aura for iPhone 4/4S

The attractive and modern-looking iSkin Aura is a hard-shell case with a brushed-aluminum finish. The edges and inside of the case contain a softer, smoother material so as to not scratch your iPhone. Available in three color combinations,

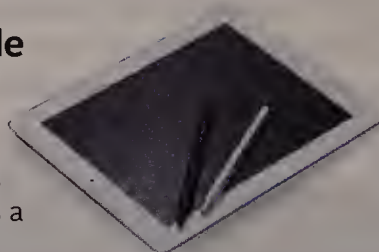


each with silver detailing, the Aura's thin shell protects against scratches and minor bumps, but not necessarily against major impact, and the edges of the case do not extend past the front of the screen. If you drop the phone screen side down, the only protection for your iPhone's screen is the included screen film.

★★★★; \$35 to \$45; iSkin; www.iskin.com

Just Mobile AluPen Pro

The AluPen Pro combines a



touchscreen stylus with a standard ballpoint twist pen in a package that wouldn't seem out of place on the desk of a company executive. The 5.5-inch-long AluPen Pro is nicely balanced, melding effortlessly to your hand, and its hexagonal ridges imitate the feel of a traditional pencil. Using the AluPen Pro's 7mm capacitive nib on an iPad is only slightly less natural than using a pen on paper, though the nib's silicone rubber tip makes it feel as if you're working with an eraser, rather than taking command of a stylus.

★★★★½; \$40; Just Mobile; www.xtand.net

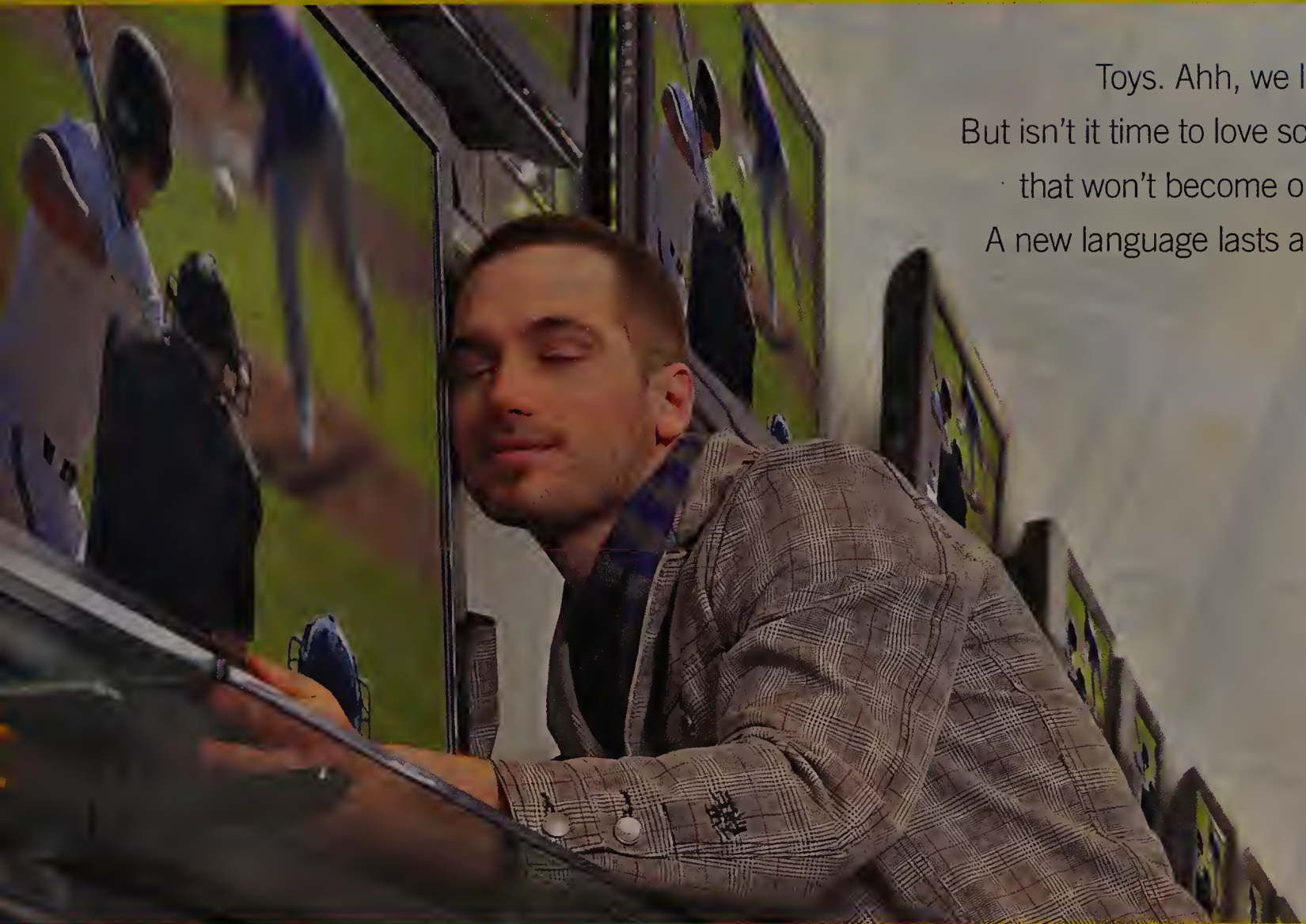
iOS Devices: Current Lineup

PRODUCT	SPECS	RATING	PRICE ^A	DISPLAY	PERFORMANCE	FIND CODE ^B
 iPad 2 ^C	16GB	Wi-Fi, ★★★★★½; 3G, ★★★★★½	Wi-Fi, \$499; 3G, \$629	9.7-inch color	Up to 10 hours on Wi-Fi; up to 9 hours on 3G	7030 Wi-Fi 7031 3G
	32GB	Wi-Fi, ★★★★★½; 3G, ★★★★★½	Wi-Fi, \$599; 3G, \$729	9.7-inch color	Up to 10 hours on Wi-Fi; up to 9 hours on 3G	7032 Wi-Fi 7033 3G
	64GB	Wi-Fi, ★★★★★½; 3G, ★★★★★½	Wi-Fi, \$699; 3G, \$829	9.7-inch color	Up to 10 hours on Wi-Fi; up to 9 hours on 3G	7034 Wi-Fi 7035 3G
 iPhone 3GS, 4, and 4S	8GB 3GS ^D	★★★★½	free	3.5-inch color	9 hours of Wi-Fi Internet; 5 hours of 3G talk time	6255
	8GB 4 ^E	★★★★	\$99	3.5-inch color (Retina)	10 hours of Wi-Fi Internet; 7 hours of 3G talk time	7516 GSM 7520 CDMA
	16GB 4S ^E	★★★★	\$199	3.5-inch color (Retina)	9 hours of Wi-Fi Internet; 8 hours of 3G talk time	7517
	32GB 4S ^E	★★★★	\$299	3.5-inch color (Retina)	9 hours of Wi-Fi Internet; 8 hours of 3G talk time	7518
	64GB 4S ^E	★★★★	\$399	3.5-inch color (Retina)	9 hours of Wi-Fi Internet; 8 hours of 3G talk time	7519
 iPod Touch	8GB	★★★★½	\$199	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6553
	32GB	★★★★½	\$299	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6554
	64GB	★★★★½	\$399	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6555

^AAll prices are Apple's prices. ^BIn a browser's address field, typing in a find code after macworld.com/ takes you to a product's review or overview. ^CThere are separate Wi-Fi + 3G iPad 2 models for AT&T's network and for Verizon's. ^DThis phone is available only with an AT&T plan. ^EThese models are available with an AT&T, Sprint, or Verizon plan.

More than words. **Priorities.**

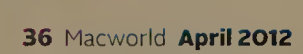
Toys. Ahh, we love 'em.
But isn't it time to love something
that won't become outdated?
A new language lasts a lifetime.

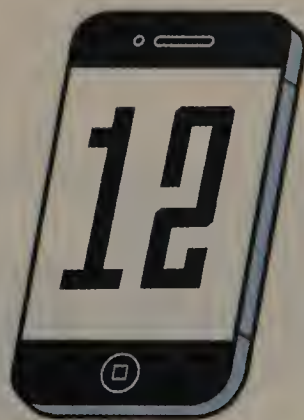


START LEARNING A LANGUAGE TODAY.

(866) 348-0612 • RosettaStone.com

RosettaStone® 





THINGS

EVERY iPhone & iPad USER

SHOULD KNOW



ESSENTIAL TRICKS & TECHNIQUES
FOR THE iPad AND iPhone

ILLUSTRATIONS BY HARRY CAMPBELL

Using an iPhone or iPad isn't hard. You probably didn't need a class, book, or on-screen tutorial to get started with yours. If you're like us, you just tapped here and there until the thing did what you wanted it to do.

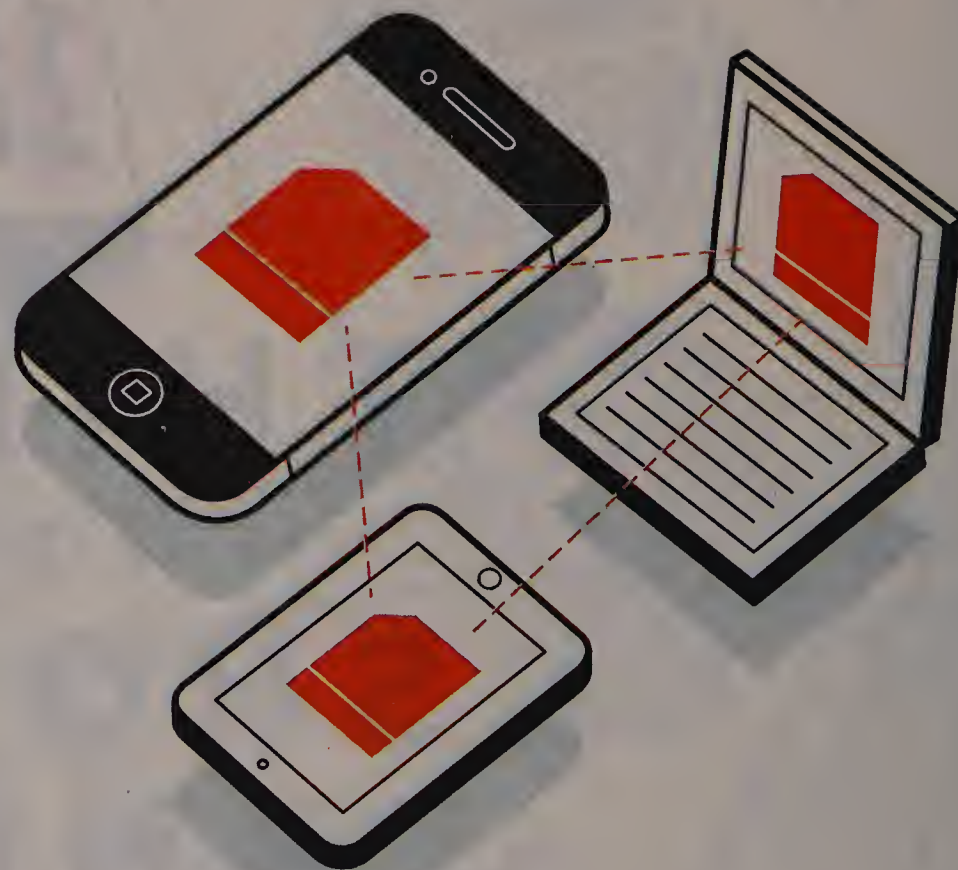
That's why many of us have holes in our iPhone and iPad knowledge. You might know how to do the things you do all the time, but you're not so certain about the things you only do once in a while. Maybe you know all about working with text or taking photos, but you're a little hazier on Bluetooth devices and printing. We all have our gaps.

That's why we came up with a list of 12 things we think every reasonably savvy iOS user should know how to do. To paraphrase something we said this time last year ("100 Things Every Mac User Should Know," April 2011), you probably already know many of them. But we're also betting you don't know them all. Here's your chance to learn.

1

SYNC YOUR DATA

BY JOE KISSELL



Your iOS device can wirelessly sync personal data such as contacts, calendars, reminders, Safari bookmarks, and notes with your Mac as well as with Apple's iCloud, Microsoft Exchange, and Google. But how you set up those syncs can vary widely, depending on the kinds of mail and calendar accounts you have.

iCLOUD

The simplest syncing setup uses Apple's free iCloud service. It's also the most capable option, because it synchronizes the broadest range of data types (contacts, calendars, reminders, bookmarks, and notes). And because iCloud is thoroughly integrated with apps built into both iOS and Mac OS X, it's the most convenient. Setting it up couldn't be simpler: On a Mac, go to the iCloud preference pane, enter your credentials, and turn on the services you want to sync. Then, on an iOS device, go to Settings ► iCloud and do the same.

EXCHANGE

If you have an account on a Microsoft Exchange-compatible server, your iOS device can sync contacts, calendars, and reminders—but not notes or book-

marks—with it. To set up the account, tap Settings ► Mail, Contacts, Calendars ► Add Account ► Microsoft Exchange. Enter your credentials, tap Next, and follow the prompts.

GOOGLE

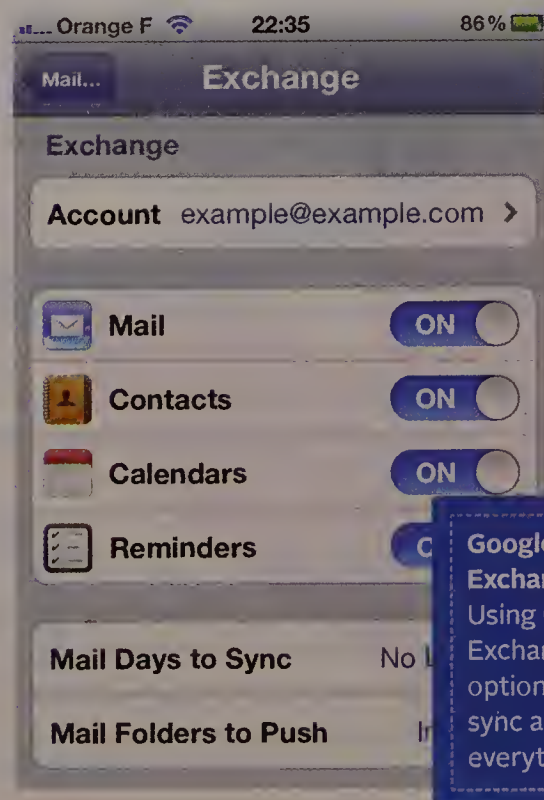
Your iOS device can sync contacts, calendars, and notes with Google's free services—Gmail Contacts, Google Calendar, and (for notes) Gmail—and it

can do so for both standard Google (aka Gmail) accounts and Google Apps accounts. But syncing with those services requires more effort than syncing with iCloud or Exchange does: You need to know exactly what kinds of information you want to sync, because no one service can sync everything.

To set up a Google account on your iPhone or iPad, tap Settings ► Mail, Contacts, Calendars ► Add Account. You can now choose from three different types of accounts; the type you choose determines the features you get.

Gmail If you select Gmail, your iOS device uses IMAP to fetch notes (as well as email). It offers to sync calendars, but it won't sync your Gmail contacts. If you see a message asking you what you want to do with your local calendars, choose the safest option, Keep On My iPhone.

Microsoft Exchange With the Exchange option, your iOS device connects to your Google account using Google Sync (Google's implementation of Exchange). That provides push syncing of calendars and contacts (as well as mail), but not notes. If you choose to use Google Sync, read Google's



Google Exchange
Using Google's Exchange option lets you sync almost everything.

"Setting Up Google Sync with Your iOS Device" help document (macworld.com/7636) and the Known Issues tab (macworld.com/7637) before you proceed: This option has some specific limitations when it comes to accepting and declining events, recurring events, and syncing contacts.

Other By selecting Other, you can configure Gmail as a standard IMAP email account (with slightly different options than if you tap Gmail). With that account, you can sync notes, but not calendars or contacts.

If one of these accounts doesn't have a feature you need, you can always set up more than one of them: For example, you can set up one Google account as Gmail and turn on Mail, Calendars, and Notes; then you can set up a second instance of that same account as Microsoft Exchange, and turn on only Contacts. Just make sure you don't set up two Google accounts to sync the same data; that could well lead to confusion.

You also need to be aware of how Google syncs specific kinds of data:

Contacts To sync contacts between Gmail and a Mac, open Address Book on the computer, choose Address Book ► Preferences, and click Accounts. Select On My Mac in the Accounts list, click Synchronize With Google, and follow the prompts. Google contacts sync only with Address Book's local (On My Mac) contacts; this option won't sync those stored in iCloud or on an Exchange server. (In fact, Apple warns against syncing Google contacts with Address Book on your Mac if you're *also* syncing contacts with iCloud.) If you want to merge local and server-based contacts, you can try Playa Apps' \$3 Contacts Sync for Google Gmail (macworld.com/7666).

Calendars You can also sync with Google Calendar from iOS using the CalDAV protocol. (For instructions, see Google's "CalDAV Calendar Sync" help page at macworld.com/7638; if you want to sync multiple calendars, see Apple's tech note at macworld.com/7639.) However, there's no good reason to do so: Google Sync is easier to set up, has fewer restrictions, and provides push updates.



To configure iCal on your Mac to connect to Google Calendar, choose iCal ► Preferences, click Accounts, and then click the plus-sign button (+). Choose Google from the Account Type menu, enter your Google credentials, and click Create. You can sync an existing Google Calendar with iCal, but you can't sync an existing iCal calendar with Google Calendar.

Notes When you sync notes with a Google account, they appear in the Notes app on an iOS device, but they show up as email messages with the label Notes in Gmail, and they appear as messages in a Notes mailbox in your Gmail account in Mail on Mac OS X.

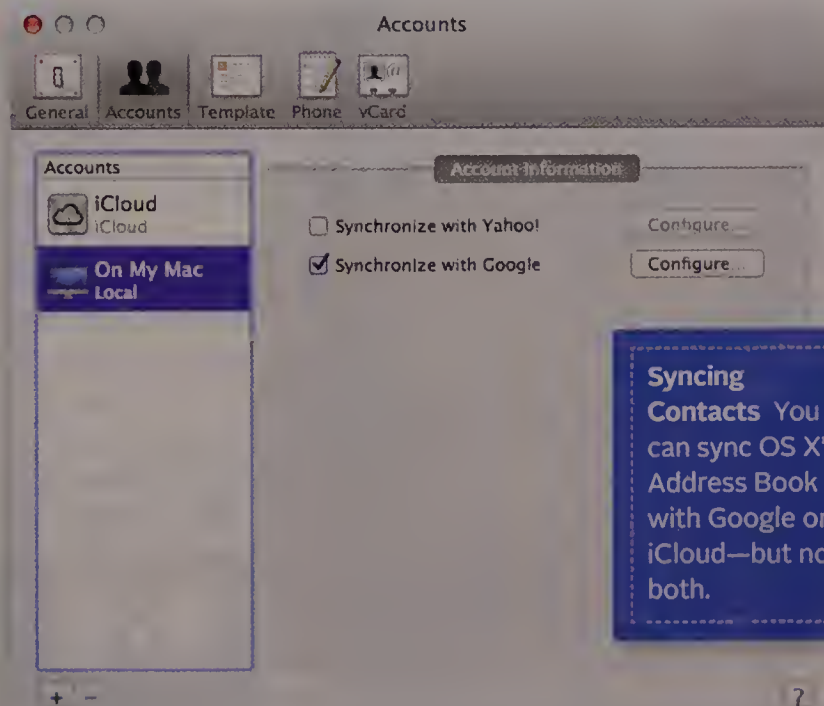
Tasks Gmail Tasks can't currently sync with the iOS Reminders app, even when you use Google Sync. But you can sync them with a third-party to-do app, such as Memengo's \$4 GeeTasks (macworld.com/7640), Yaniv Katan's free gTasks HD (macworld.com/7667), and Readdle's \$7 Calendars (★★★★; macworld.com/7642). You could search the App Store for other iOS to-do and reminder apps; many third-party options include both Mac and iOS components that sync

with each other and require neither an iCloud nor a Google account.

Bookmarks To sync your bookmarks between the Mac and iOS versions of Safari, iCloud is currently the only way: Apple doesn't give third-party software access to the Safari bookmarks on iOS devices, so no other service can sync them from your Mac to your iOS device.

You can, however, use the Xmarks Premium service from LastPass (\$12 per year; buy.xmarks.com), which also lets you sync your Safari, Firefox, and Chrome bookmarks among all your Macs and PCs. Several other alternative iOS browsers and bookmark apps also offer syncing with Safari on your Mac.

Senior Contributor **Joe Kissell** is the senior editor of TidBits and the author of *Take Control of iCloud* (TidBits Publishing, 2011).



2

MULTITASK

BY LEX FRIEDMAN



Multitasking arrived with iOS 4, making it a lot easier to get things done quickly on iPhones and iPads. iOS 5 brought multitasking gestures to the iPad-using masses, which helped make iOS even snappier. But those features really only help you use iOS faster once you've mastered them.

There are two main approaches to multitasking on an iOS device: using Home-button actions and performing gesture-based actions.

HOME BUTTON

Pressing the Home button twice quickly opens the multitasking bar. There you'll see your most recently run apps; they appear in the order in which you last used them (most recent to the left, less recent to the right; swipe left to see older ones). If you use a lot of apps and would rather not do all that swiping, it's probably faster to press the Home button once more, pause, and then press it again to summon Spotlight and search for the app by name.

If the multitasking bar is open and you swipe to the *right*, you expose a set of playback controls. Usually those controls work with the Music app, but they can also control other apps—such as Pandora—that you might be using to play music. There's also a button that turns on the orientation lock. (On the iPad, this may be a mute toggle, depending on the option you have set under the Use Side Switch To area in Settings ► General.)

On the iPad, this part of the multitasking bar also offers AirPlay control and brightness and volume sliders. On the iPhone, you have to swipe left to right once more to get AirPlay and volume; there's no brightness slider—a frustrating oversight.

MULTITASKING GESTURES

Because the iPhone's screen is so small, it does not support multitasking gestures. But the iPad does, and once you master them, you'll wonder how you ever managed without them. Unfortunately, the iPad's multitasking gestures aren't necessarily intuitive. But they're straightforward enough to memorize.

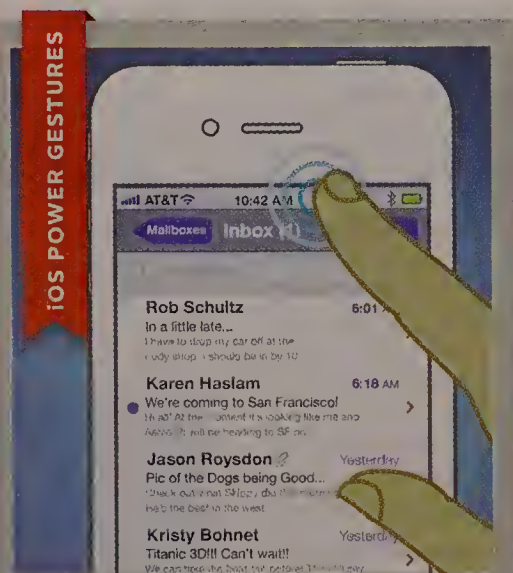
First, make sure the gestures are enabled: Go to Settings ► General and slide the Multitasking Gestures switch to On. You can now use three systemwide gestures from within any app:

► Pinch closed with four or five fingers to get back to your home screen. Imagine you're squeezing the app closed by moving your fingers together. (For added amusement, perform the gesture slowly, and start expanding your hand again before you release, watching the app shrink and grow.)

► Swipe straight up with four or five fingers to access the multitasking bar. You can swipe back down again to dismiss the multitasking bar, or just tap anywhere else on the screen. This works when you're on the home screen as well as from within apps.

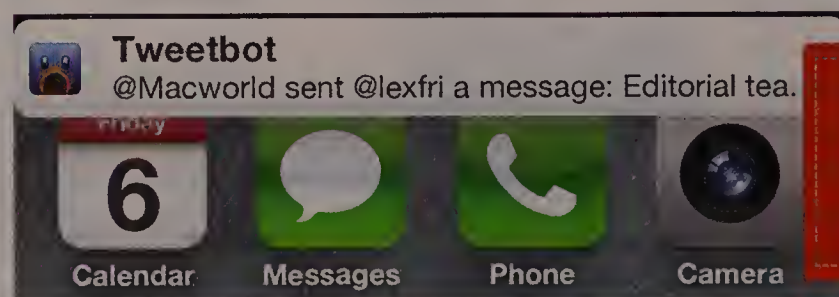
► Swipe left or right with four or five fingers to switch between apps. When you launch an app, visualize it as the left-most one; swipe from right to left to go to the last used app. Swipe the other way to go back.

Lex Friedman is a staff writer for Macworld.



Status Bar

Tap the status bar to get to the top of the list, page, or email you're viewing.



Notifications With the multitasking bar open, notifications appear above it, not at the top of the screen.



THERE'S NO WARNING WHEN YOU LOSE YOUR FILES.

That's why you need Carbonite. It's automatic, secure online backup. So whatever happens, the photos, documents and files you care about are safe. Get the better backup plan for your home or business, starting at just \$59. **TRY IT FOR FREE AT CARBONITE.COM.**

USE OFFER CODE MACWORLD FOR TWO FREE MONTHS WITH PURCHASE

CARBONITE
ONLINE BACKUP



}

MANAGE YOUR APPS

BY SERENITY CALDWELL

Without apps, your iPhone, iPod, and iPad would be useless, so knowing how to find good apps and how to manage the ones you have is crucial.

FINDING

The App Store's Search feature is fine if you know the name of the app you want to buy. But there are other approaches you can take if you don't.

The handiest is to open the App Store's Categories tab. There, you can not only find the type of app you want—photo editing, say—but also see which ones are most popular with other App Store customers. If you've heard of a new one, you can sort by release date.

If you're looking for more of what you already have, turn on the Genius section of the App Store; it gives you recommendations for apps like those you've already downloaded. (This is particularly useful for games.) If you find an app that you know wouldn't suit your taste, swipe to delete it from your list; Genius will recalibrate its results.

ORGANIZING

Once you've amassed a lot of third-party apps, your home screens can get unwieldy. But the basics of app organization are easy: Tap and hold an app icon to enter edit mode (all the icons jiggle), drag apps around

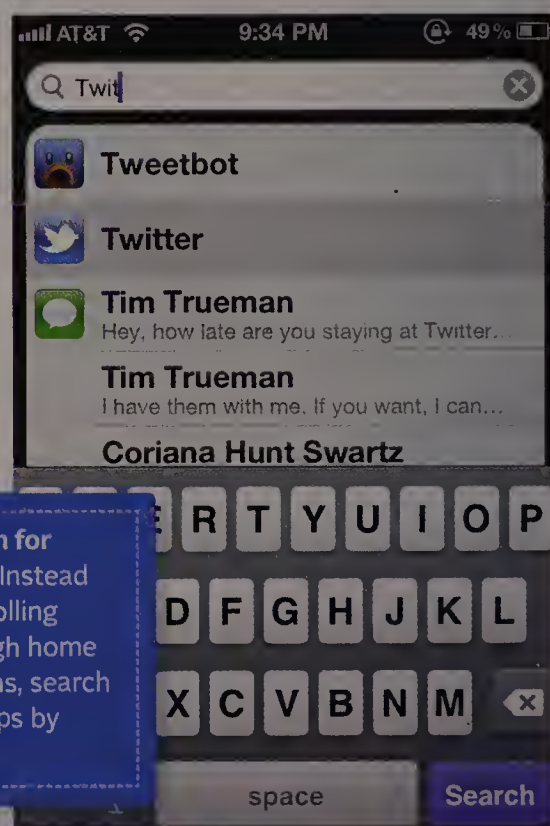
the screen or from one screen to another, and when you're done press the Home button. But there's more to it than that.

Folders Have a lot of games? In edit mode, drag one game on top of another to create a Games folder. To add more games to the folder, just drag them onto it. You can add as many as 12 apps per folder on the iPhone, and 20 on the iPad. When you're done, open a folder by tapping it.

Use Your Mac If you need to straighten up several pages of apps, you're better off doing it on your Mac. Connect your device (via USB or Wi-Fi Sync) and open iTunes. Select your device in iTunes' Source list and click on the Apps tab; there, you can drag apps to rearrange them, or remove apps by unchecking them.

Search If you have so many apps that even your folders have become cluttered, you can search for them by title with Spotlight: Swipe to the right on your first home screen and start typing the name.

Updates When a numerical red badge pops up in the upper right corner of the App Store icon, some of your apps need updating. Because Apple approves new patches throughout the day, it's usually best to update your apps in the evening (you can do so by opening the App Store, tapping Updates, and then tapping Update All).



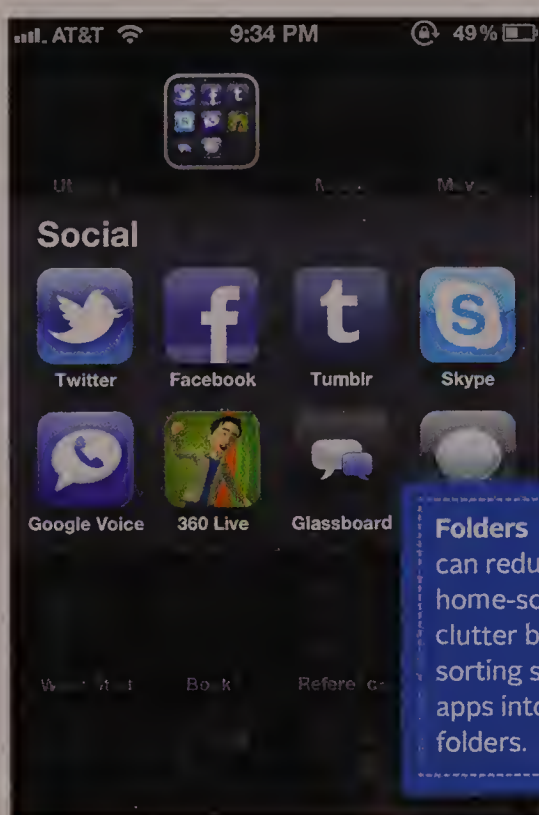
Undelete If you delete an app but want it back, you can redownload it for free.

Open the App Store app. On an iPad, select the Purchased tab, then choose Not On This iPad, and then tap the download icon for the app. On an iPhone, select Updates and then Purchased, tap Not On This Phone, and then download the app.

USING

For the most part, iOS apps stick to themselves, within their own virtual sandboxes. But some apps can interact with others by sharing files.

Camera Roll and Dropbox Many apps can save images to, and open images from, Camera Roll: Just save app A's image and then use app B to open up that image from the Camera Roll. Documents are trickier. If app A is able to export to Dropbox, send the file there: You can then open Dropbox, load the file, and tap the Action button. You'll then be prompted to select an app from the Open In menu.



Other Apps The Open In command also appears in Safari, Mail, and third-party apps, allowing you to send external

files to various apps. So if, say, someone sends you an iBooks-compatible ePub or PDF by email, you can send it directly to iBooks to read it.

Fast App Switching In addition to opening recently used apps by double-pressing the Home button (see "Multi-task"), you can also quickly access apps that have recently issued notifications: Pull down Notification Center by swiping down from the top of your device's screen and tapping the app alert.

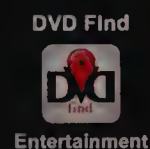
Quitting You can clear certain apps from the multi-tasking bar by entering edit mode and tapping the X in the upper left corner. You do not need to do this, however; your device automatically manages memory, and it quits any apps that might make it run sluggishly.

Serenity Caldwell is a staff editor for *Macworld*.

Your iPhone/iPad Idea to Fruition in 2 Steps

1 Bring your application idea to Zco

2 Zco designs and develops your app



Entertainment

Eck App



Games

Pico de Botella



Entertainment

Discovery Game



Games

bpServ



Business

KungFu Spinner



Games

NHPR



News

AutoVol



Utility

Extreme Speed Gliding



Games

Knockoff



Games

NameCatcher

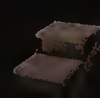


Lifestyle

ur



2



Stumped by this puzzle? The answer is on our website

One of the Largest Custom Mobile App Developers in the World
(Serving Fortune 20 Companies to Small Businesses)

iPhone | iPad | Blackberry | Android | WebOs
Symbian | Windows Phone | Palm Pre | Kindle

Digital Marketing & Enterprise Software

.Net | Java | PHP | ColdFusion | SEO
Video | 3D Animation | iAd

Zco

www.zco.com
603.881.9200

Multiply Dots



Education

Kinesio Capture



Sports

Dry Fire Trainer



Sports

My Days Pay



Lifestyle

Color Car Mania



Games

Hypnosis on the Run



Lifestyle

Obama Tickle



Entertainment

Lil' S.P.E



Social Networking

ClassTime Schedule



Education

Abbo EMR



Medical

Hospitality iCoach



Business

4

EDIT TEXT

BY DAN FRAKES

Whether you're writing an email or filling in a field in Safari, nearly every task you perform on your iPhone, iPad, and iPod touch involves working with text. And there are smart ways to do so.

BASICS

The first thing you need to know how to do is navigate and select text, and take advantage of iOS's built-in editing tools.

Scroll In almost any iOS editing field, you swipe your finger up or down to scroll through text. However, if you're working in a text field within a webpage, a single-finger swipe scrolls the webpage; swiping two fingers scrolls through the text field.

Position the Cursor Tap within a text field or document to place the cursor at that location and bring up iOS's on-screen keyboard. (If you have an external Bluetooth keyboard connected, the on-screen keyboard stays hidden.) Alternately, tap and hold anywhere on a word to see a loupe that shows a magnified view of the text beneath your fingertip. Drag your fingertip around in the text, and the loupe lets you position the cursor precisely.

Select Text In editable text, double-tap a word to select it; if text is not editable—for example, on a webpage—tap and hold anywhere on a word to select it. In either case, the selected word is highlighted and bracketed by a handle on each end; to expand the selection, drag either handle. To quickly select an entire

paragraph of text, tap once with *two* fingers. (This may not work in third-party apps that use the two-finger tap for something else.)

Use the Editing Popover After placing the cursor or selecting a word, you see iOS's text-editing popover. The options available vary depending on the app and the context, but they usually include Select, Select All, and some combination of Cut, Copy, and Paste; you may also see Suggest and Define.

Some apps provide their own options, which are often found by tapping an arrow button in the popover. In Mail, for example, tapping the right arrow in the editing popover reveals options for formatting text and for increasing or decreasing the quote level. The app

applies the action you choose to the selected text (if you selected a block of text) or to the current line or paragraph (if you didn't).

Get a Definition When viewing uneditable text, double-tap a word to select it, and the editing popover that appears includes a Define option; tap Define to get a definition from iOS's built-in dictionary. When you're editing text, selecting a word presents the Suggest option; tap Suggest, and iOS presents you with similarly spelled words.

Check Spelling In almost any app, iOS automatically checks spelling as you type. If iOS doesn't correct a misspelled word on the fly, a dashed red underline appears beneath the word. Tap once anywhere on the word, and the resulting popover suggests replacements. Tap one to replace the misspelled word with it. (To disable the spelling checker, go to Settings ► General ► Keyboard.)

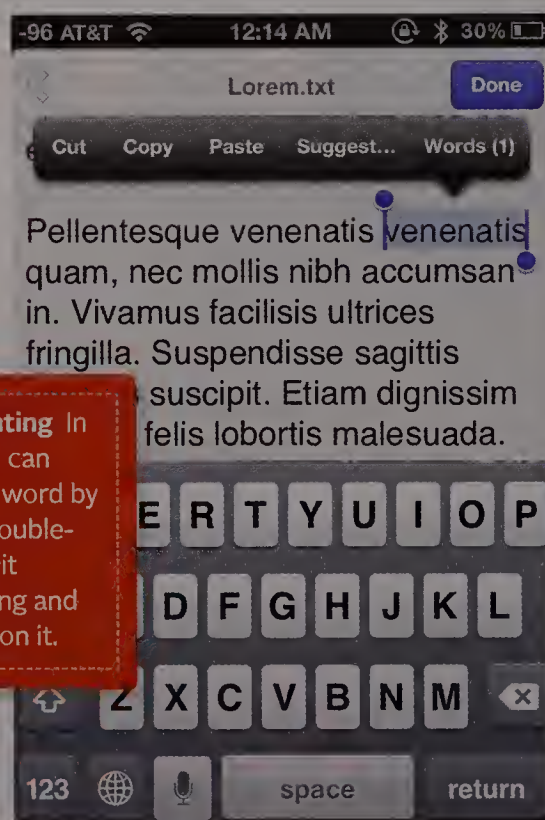
Undo iOS provides a couple of Undo tools: First, there's an Undo button on the iPad alternate keyboard (the one you see when you tap the 123 key). Second, if you shake an iOS device, a small dialog box slides onto the screen. Tap Undo Typing to undo the last change you made, or tap Cancel to leave your edits alone.

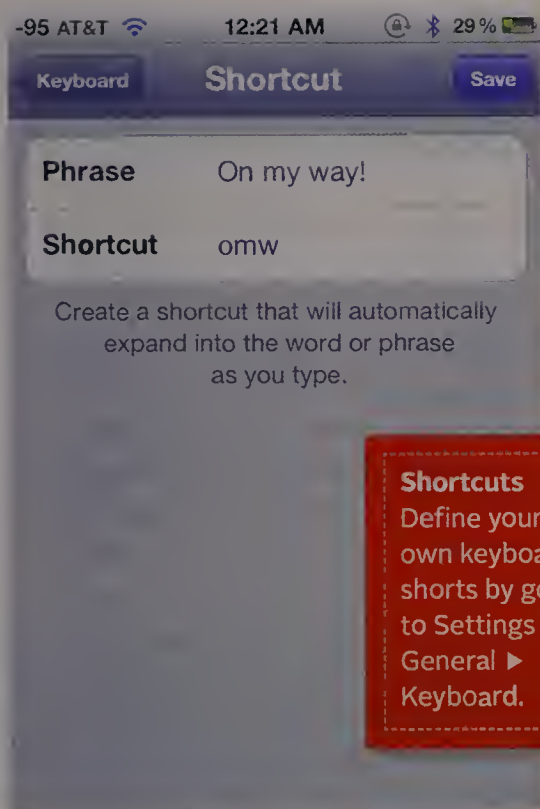
THE KEYBOARD

The size of the iOS keyboard depends on the device you're using (iPad, iPhone, or iPod touch) and whether that device is in landscape or portrait orientation. The keyboard's keys may also differ slightly depending on the app and context; for example, if you're entering a URL in Safari, you see a .com key and other options you'd commonly use to type URLs, instead of a spacebar.

People new to iOS often find it odd that it doesn't enter a typed character when you first touch the key; rather, it waits until you lift your finger off the key. This approach nips misspellings in the bud: If you realize you've pressed the wrong button, just slide your finger off the key before lifting your finger from the screen. The keyboard on the iPhone and iPod touch provides an

Highlighting In iOS, you can select a word by either double-tapping it or tapping and holding on it.





enlarged preview of a key's character. Again, if it's the wrong key, you can slide your finger to the intended key and then release.

This approach also has one other advantage: quick access to special characters. If you want to type a special version—or diacritic—of a character (for example, ü), tap and hold on the standard version of that character (in this case, u). You'll see a popover with various versions of the character (ūüüüüü); choose one to insert it. This also works with some symbols, such as the dash (-) key—tapping and holding on it produces a standard dash, en and em dashes, and a bullet character.

The virtual keyboard is good, but not everyone takes to it; for most people, it's not ideal for marathon typing sessions.

All iOS devices support external Bluetooth keyboards, and there are now dozens of keyboards on the market made specifically for use with the iPad (and, to a lesser extent, the iPhone and iPod touch). These portable keyboards include their own batteries and they usually have special iPad function keys for common iOS actions such as adjusting the volume and screen brightness, controlling media playback, opening iOS's Spotlight search screen, going to the home screen, and more—some even offer dedicated buttons for cutting, copying, and pasting.

If you're a Mac keyboardist, you'll be happy to discover that iOS recognizes many of the Mac's common text-editing keyboard shortcuts, such as ⌘-C for copy, when you're using an external keyboard. In some apps—but not in Mail—you can even use formatting shortcuts, such as ⌘-B for bold and ⌘-I for italic.

KEYBOARD SHORTCUTS

The Settings > General > Keyboard screen offers several shortcuts to make entering text easier. It's obvious what Auto-Capitalization and Auto-Correction do. The Enable Caps Lock option lets you enable caps-lock mode by double-tapping the Shift key. The "." shortcut option, when enabled, automatically inserts a period and a trailing space whenever you quickly type two consecutive spaces.

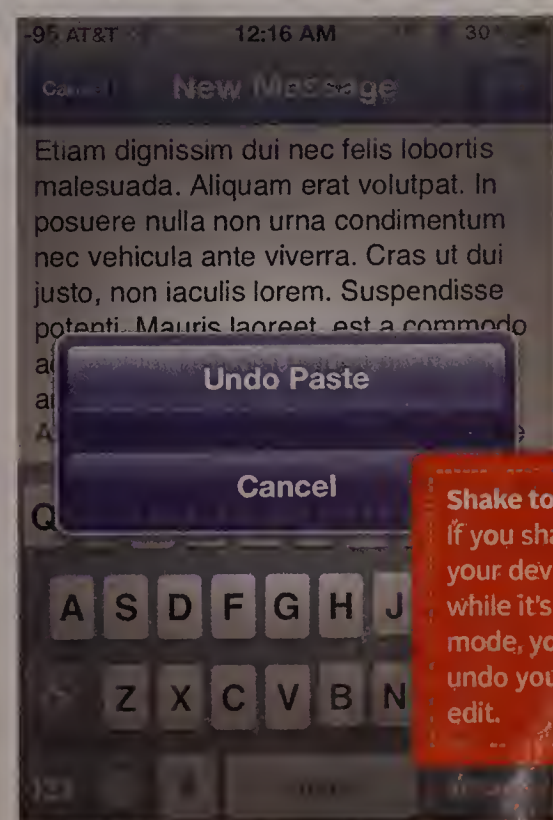
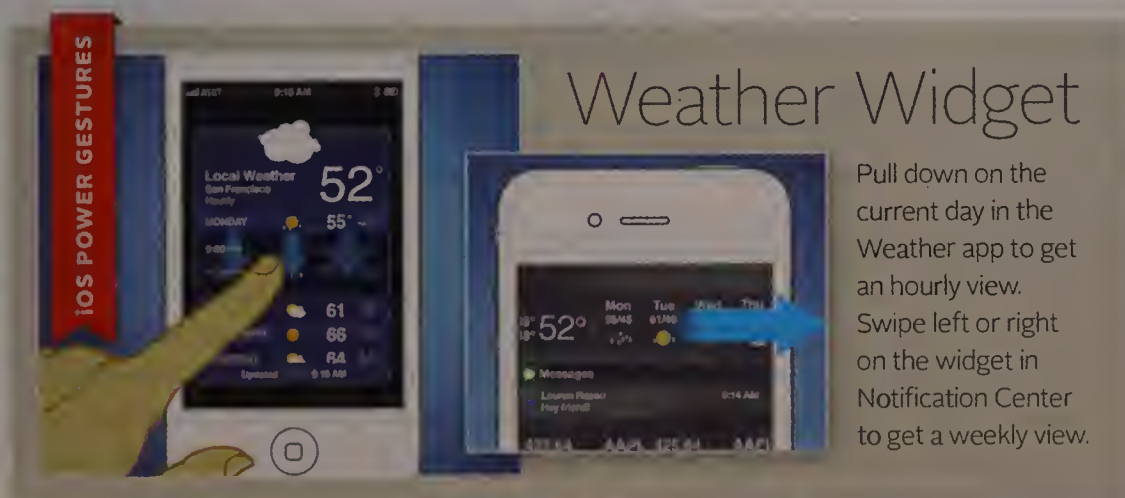
In this same settings screen, you'll also find an often overlooked feature, Shortcuts. This feature—similar to, but

less capable than, SmileOnMyMac's excellent TextExpander app (★★★★½; \$5; macworld.com/7643)—makes it easier to type frequently used text snippets by associating them with shorter abbreviations. For example, tap Add New Shortcut, and then type **works for me** as the phrase and **wfm** as the shortcut. Now, whenever you type **wfm**, iOS immediately replaces it with **works for me**. Phrases are limited to a single line, so you can't use this feature for multiple-line email signatures or street addresses.

DICTATION

If you have an iPhone 4S, Siri—iOS's virtual assistant—can do some of your typing for you. When the iOS keyboard appears, tap the microphone icon to the left of the spacebar, and then start dictating. When you're done, tap the Done button and Siri enters its interpretation of what you said. Assuming that your iPhone has a decent Internet connection—Siri sends its data over the Net for analysis—this works surprisingly well, although you need to verbalize your punctuation and formatting as **comma**, **period**, **question mark**, **new paragraph**, and so on.

Dan Frakes is a senior editor for *Macworld*.





5

SEND A MESSAGE

BY LEX FRIEDMAN

Broadly speaking, iOS offers three ways to message people (not including email): iMessage, traditional SMS and MMS texting, and instant messaging (IM). iMessage requires Apple's stock Messages app. You can text using Messages or a third-party app. IM requires a third-party app; which one you choose depends on the hardware and apps your recipients use.

iMESSAGE

On the iPhone, iPad, and iPod touch, you can use Apple's Messages app to send iMessages, which can convey text, photos, and videos between iOS devices.

Messages automatically defaults to sending an iMessage when it detects that the recipient is also using an iMessage-capable device—namely, an iOS device running iOS 5 or later. iMessages don't count against your carrier's text-messaging limits for your plan, and they have added niceties: They can sync between iOS devices, and you get an indication when your message has been successfully delivered. You can go a step further by turning on Send Read Receipts (in Settings ► Messages), which indicates to your friends who use iMessage when you've actually read their messages.

Tip: If you set your iMessage Caller ID address to your email address in the

Settings app, your messages will always stay in sync between your iOS devices.

SMS AND MMS

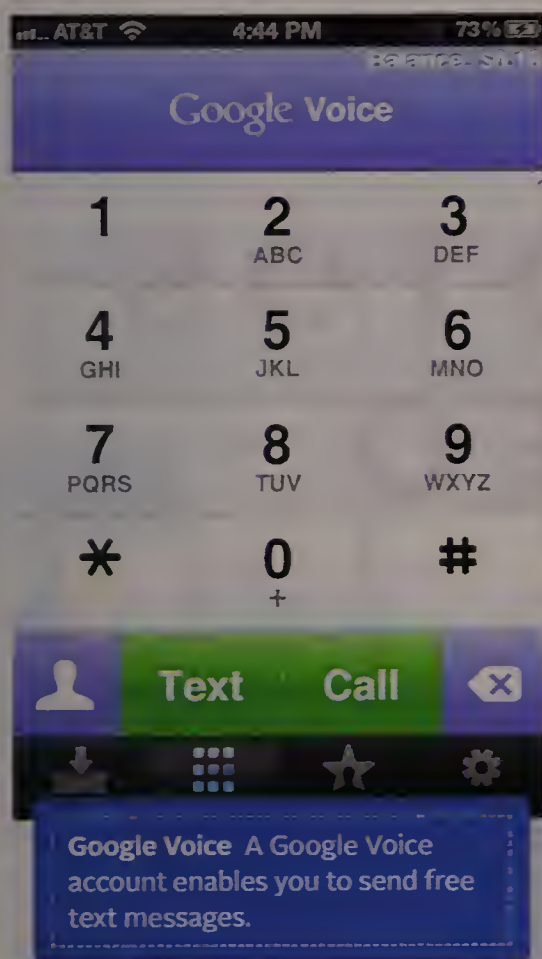
On the iPhone, the Messages app also works for sending traditional SMS and MMS messages. As you compose new messages in the app, they appear in blue if you and your recipient are both using iMessage; they turn green when you're messaging folks on other platforms.

In the Settings app, you can tweak a few elements of Messages' behavior when sending such messages. There's a toggle to disable MMS, in case your plan doesn't support those messages and you don't want to send any pictures or videos accidentally at an added cost. You can also disable Group Messaging, which allows you to text multiple people at once. The other two settings are Show Subject Field (a texting feature that almost no one uses, so it may be wiser to leave it turned off) and Character Count, which provides a countdown as you type to ensure that your text message isn't too long.

If you want to send text, picture, and video messages to someone who doesn't have an iOS device, third-party apps make that possible. Many do so by determining the email address equivalent of your friends' phone numbers, a process that generally requires that you know which wireless carrier they use. Other apps send text messages through their own systems, meaning that all they need is your contacts' phone numbers.

Many of the apps that can let you send text messages can also help you save on your messaging plan: If you use a third-party app that sends text messages over the Internet instead of via your cellular provider, you can probably downsize your messaging option—or eliminate it outright.

Search the App Store for SMS and you'll find oodles of options for such apps; they include Enflick's TextNow (📱📱📱; free; macworld.com/7644) and Gogi's textPlus (📱📱📱📱; free; macworld.com/7645). If you're on an iPhone, you can use any of these third-party apps in tandem with Messages. With any



third-party messaging app, however, your device must be online to send messages via the app.

My favorite third-party app for messaging is Google Voice (free; macworld.com/7646): It's ad-free and requires only your contacts' phone numbers to work. Google Voice just sends text messages, not photo or video ones. It does require that you have a free Google Voice account, which you must create on your Mac; you can use your existing Google account to do so. Once that's set up, you get push alerts when messages arrive—a must for any app you'd consider using for texts.

The biggest downside to the otherwise satisfactory Google Voice option is that the app doesn't support sending pictures. Numerous other apps you can find in the App Store support photo sharing—in their own way. When you use these third-party apps to send a photo, the recipient actually receives a

link to the image, which has been uploaded to a Web service somewhere. It's a fine way to send photos, provided the recipient has Internet access on his or her smartphone.

INSTANT MESSAGING

One other option is to go the instant messaging route. All of the major IM networks—AIM, MSN, Google, Yahoo, and Facebook—have apps of their own; numerous other apps, including BeejiveIM (★★★★; \$10; macworld.com/7606) and Verbs IM (★★★★½; \$1; macworld.com/7647), offer combined access to multiple IM networks. With such apps, you can send messages to friends who are logged in to those services on their computers or smartphones.

As with the other apps mentioned, IM services don't count against your cellular plan's messaging quota, though they will add to your use of data.



The Gold Standard

iBank™ 4

Import from Quicken • Organize your accounts

Download transactions • Reconcile statements • Schedule payments

Create reports • Budget spending • Forecast savings • Review expenses • Print checks

Track stocks • Analyze investments • Monitor net worth • Export to TurboTax • Sync to iPhone

Plan your future • Manage your money

"An excellent personal finance application that should easily replace any you're currently using." — macworld.com

Lion-ready • Free 30-day trial • www.go-iBank.com



And you can take it with you: get iBank Mobile



and iBank Investor



and iBank for iOS

6

SHOOT PHOTOS
AND VIDEO

BY ALEXANDRA CHANG

The iPhone and iPad make for surprisingly robust cameras, thanks in large part to the built-in apps that let you shoot, manage, and sync your images.

THE BASICS

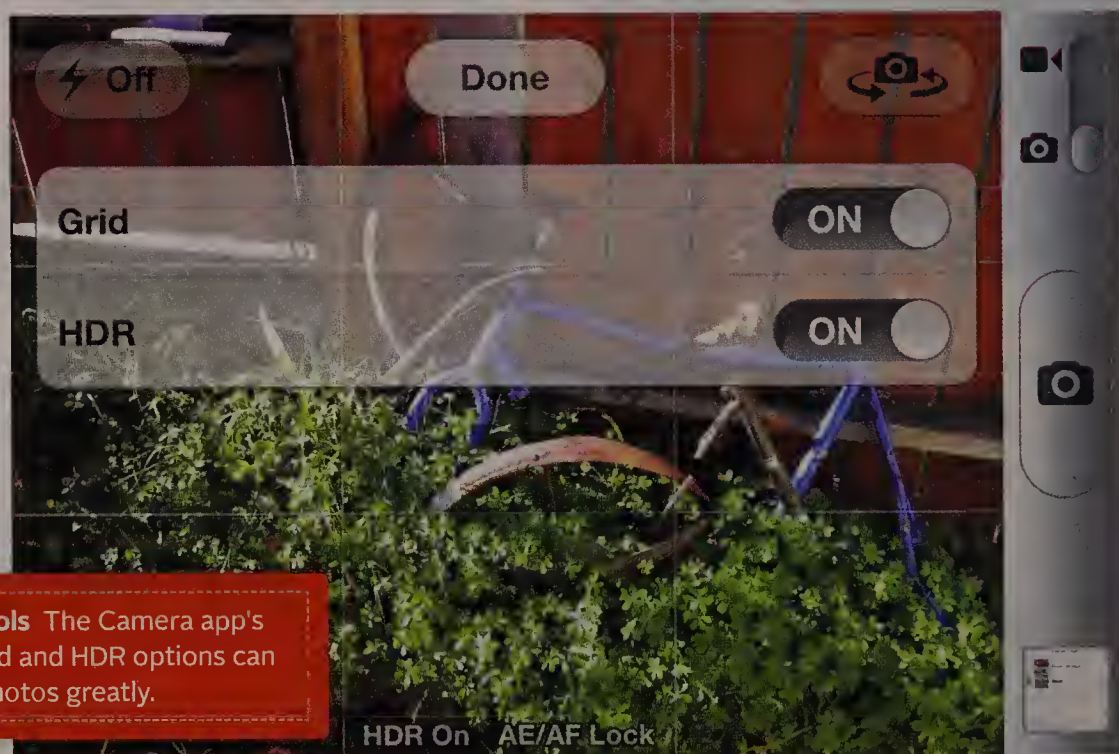
Apple's built-in Camera app is the easiest way to shoot photos and video on an iOS device. You can launch it by tapping on the app's icon or, if you're in a hurry, by pressing the Home button twice from the lock screen and then tapping on the camera icon.

Once the app launches, you take still shots by tapping the camera button at the bottom center of the screen. You can switch between the front and back cameras by tapping the camera icon with the arrows, in the top right corner. For a low-light setting, turn the flash to On or Auto; turn it to Off if you don't want any flash in your shot.

To shoot video, tap the Photo/Video toggle in the bottom right corner. A round red light replaces the camera button. Tap this button to start recording (you'll see a time code in the upper right corner of the app's screen); tap again to stop.

For help in composing your shots, tap the Options button at the top of the app's screen and turn on Grid; this overlays a three-by-three grid on the screen, so you can follow the rule of thirds. That's also where you can turn on the camera's high dynamic range (HDR) feature, which

Built-in Tools The Camera app's built-in Grid and HDR options can improve photos greatly.



combines three separate exposures to create a single image with optimal lighting. HDR is best for landscape and outdoor portrait shots; don't use it for action photos.

The Camera app automatically sets exposure and focus points, but it doesn't always do so correctly. To focus and set the exposure level on a specific part of an image, tap that area on the screen. To prevent the Camera app from picking new exposure and focus points, tap and hold on the part of your image where you want to set the exposure and focus; doing this activates the auto-exposure/auto-focus lock.

While the built-in Camera app is fine for most users, more-serious photogra-

phers will want a third-party app. Tap tap's Camera+ (\$1; macworld.com/7576) and Jens Daemgen's ProCamera (★★★★; \$1; macworld.com/7648) are excellent choices. Both let you lock the exposure on one part of an image and focus on another—something Apple's Camera app can't do. They also provide more advanced features, including stabilizing modes, self-timers, and burst modes for taking quick successive photos.

MANAGING AND SYNCING

Once you've shot a photo or video, it's automatically saved to your device's Camera Roll, which you access by either tapping the Photos app icon, by tapping

Plus, get the **Gaming MegaPac Vol. 5 DVD FREE** when you subscribe.

Annual Cover Price	You Save	You Pay Only
\$83.88	\$63.91	\$19.97



FREE
when you
subscribe

Savings based on annual U.S. newsstand rate of \$83.88. Offer valid in U.S. only. Foreign orders must be prepaid in U.S. funds with additional postage. Add \$10 per year for Canada; and \$20 per year for foreign air delivery. Canadian GST or HST included where applicable. Or order online at <http://www.macworld.com/outsideUS>

YES! Please send me *Macworld* at the discounted rate checked below and the **Gaming MegaPac Vol. 5 DVD**.

- ☐ 2 years (24 issues) for \$34.97 ☐ 1 year (12 issues) for \$19.97
SAVE 79% off the cover price! **SAVE 76% off the cover price!**

Name _____

Address _____

City/State/Zip _____

Email _____

To receive a **FREE Macworld** email newsletter and updates about your subscription to *Macworld* magazine, please provide your email address.

☐ **Payment Enclosed** ☐ **Bill me later**

J24N2J

Rush my bonus gift:



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL
FIRST-CLASS MAIL PERMIT NO. 112 BOONE IA

POSTAGE WILL BE PAID BY ADDRESSEE

Macworld



SUBSCRIPTION DEPARTMENT
PO BOX 37778
BOONE IA 50037-2778



the small photo icon in the lower corner of the Camera app, or by swiping to the right in the Camera app.

You can organize your Camera Roll into different albums by tapping the Edit button in the Photo app's album viewing mode. Tap Add, create a title for your album, and then select the photos you want to add to that album. This duplicates the photos, so you'll have one copy in Camera Roll and another in the album.

You can delete a photo by tapping it in the Camera Roll and then tapping the trash-can icon in the lower right corner. If you want to delete multiple photos at once, go to the Camera Roll and tap the Action button in the top right corner; select the photos you want to get rid of and tap the red Delete button in the bottom right corner.

To sync your photos and videos across multiple iOS devices and your Mac, you have a few options. You can tether your iOS device to your Mac (via USB cord or Wi-Fi) and then select the Photos or Videos tab in iTunes, check the Sync box, and then choose Apply. Your photos sync with either iPhoto or Aperture for photos, and with iTunes for videos. You can then choose to sync those photos from the app to other iOS devices by tethering them to your Mac.

For more seamless syncing, use Apple's iCloud Photo Stream service. (Photo Stream syncs only photos, not videos.) Go to Settings ► iCloud and turn on Photo Stream. That done, every time you snap a photo on your iOS device, it syncs to other devices that also have Photo Stream turned on and are tied to your Apple ID. The photos display in a Photo Stream album in the Photos app on your iOS devices. On your Mac, Photo Stream imports images to either Aperture or iPhoto.

You can do everything with Photo Stream that you can do with Camera Roll except delete individual images. You can delete the entirety of your Photo Stream on the iCloud website. On your Mac, sign in to the site and then click your name in the top right corner. Click the Advanced button and then click Reset Photo Stream. The photo will be deleted on your iOS devices, but not from your Mac.



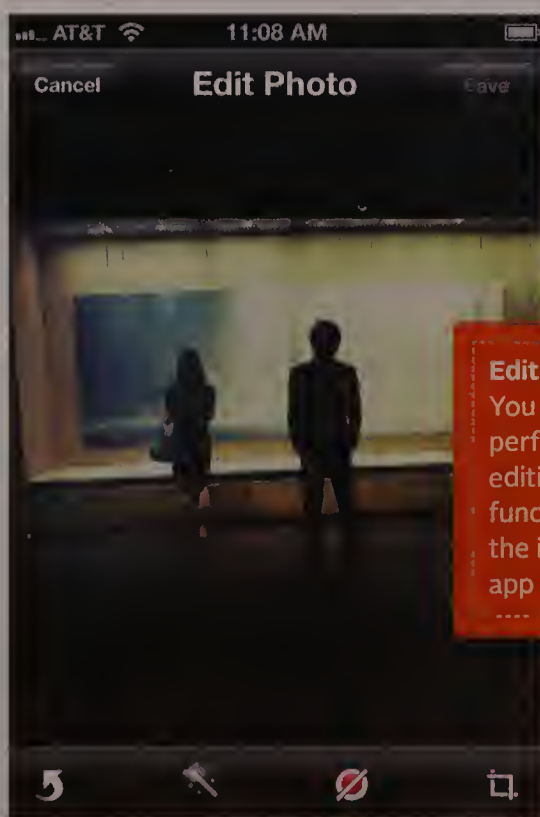
Photo Stream starts deleting photos on your iOS device first when you have

more than 1000; the oldest go first.

There are a couple of ways to assert control over Photo Stream. You can turn Photo Stream off while you're shooting, delete the images you don't like from your Camera Roll, and then turn Photo Stream back on; Photo Stream syncs only new Camera Roll images. Another option is to turn your phone to Airplane Mode while you're shooting and follow the same steps.

EDITING

Apple's Photos app provides basic photo-editing tools for your still images, including rotate, enhance, red-eye removal, and crop. To enter the Photo app's editing mode, tap an image in your



Camera Roll and then tap the Edit button in the top right corner. For advanced editing, you need to purchase third-party apps. Nik Software's \$5 Snapseed (macworld.com/7578) is an excellent all-in-one photo editor that runs on both iPhones and iPads. With it, you can use Multi-Touch gestures to tune and adjust images, add filters and frames, and make selective edits.

To edit videos on your iOS devices, use the basic Trim tool in the Camera Roll; you can edit the start- and endpoints of a video by tapping and holding the end you want to trim in the video preview at the top of the screen. If you want to do more than that, you must download Apple's \$5 iMovie app (📺; macworld.com/7649). With it, you can do almost as much on your iPad as you can on your desktop Mac. Tap a clip, and bright yellow selection handles appear; you can then drag the clip to the Viewer area. Add titles by double-tapping a clip and choosing a title style from the pop-up menu that appears.

Pinch outward vertically to access the Precision Editor for more-specific edits. You can also edit audio for multiple tracks. The iMovie version for the iPhone and iPod touch offers similar features, but it doesn't include the Precision Editor or the ability to see audio waveforms.

Alexandra Chang is a staff editor for *Macworld*.

7

PRINT

BY DAN MOREN

With iOS 4.2, Apple introduced AirPrint, which put printing capabilities directly into the mobile operating system. Unfortunately, AirPrint works only with certain printers. If you have an AirPrint-capable printer, printing from an iPhone or an iPad—or, more specifically, from an iOS app that supports printing—is simple. (Those apps include such staples as Safari and Mail.) But even if you don't have an AirPrint printer, there are still ways to print from an iPad or iPhone, as long as you have the right helper apps.

PRINT CENTER

The Print command is often hidden under the Action button, alongside things like Send To Email or Send To Twitter, in apps that support printing. Once you find and tap Print, you're asked to select a printer and specify the number of copies (up to 99); depending on the printer you're using, there may be other options as well. Once you've made your selections, tap Print again.

To check the status of a current print job, you use Print Center, an app that appears only while printing is active; you reveal it by double-clicking the Home button to open the multitasking bar. There, Print Center is the first app in the bar; the badge on its icon reflects the number of print jobs that are currently in the queue.

If you have multiple jobs printing at the same time, you can look at their

details by tapping on any of them. (If Print Center is displaying information about a job, tap the Print Order button in the top left of the popover.) For each job, Print Center tells you what's printing, which printer it was sent to, the number of copies being printed, the time the job was sent, and the current status.

You can cancel a job by tapping the Cancel Printing button or, from the Print Order screen, by swiping across a job and tapping Delete. Unlike other apps, Print Center disappears from the multitasking bar when it has no jobs left.

THIRD-PARTY APPS

While the printing basics are built into iOS, there are third-party apps that do more. The best is Ecamm Network's \$20 Printopia (📱📱📱📱; macworld.com/a/155941), which is actually a preference

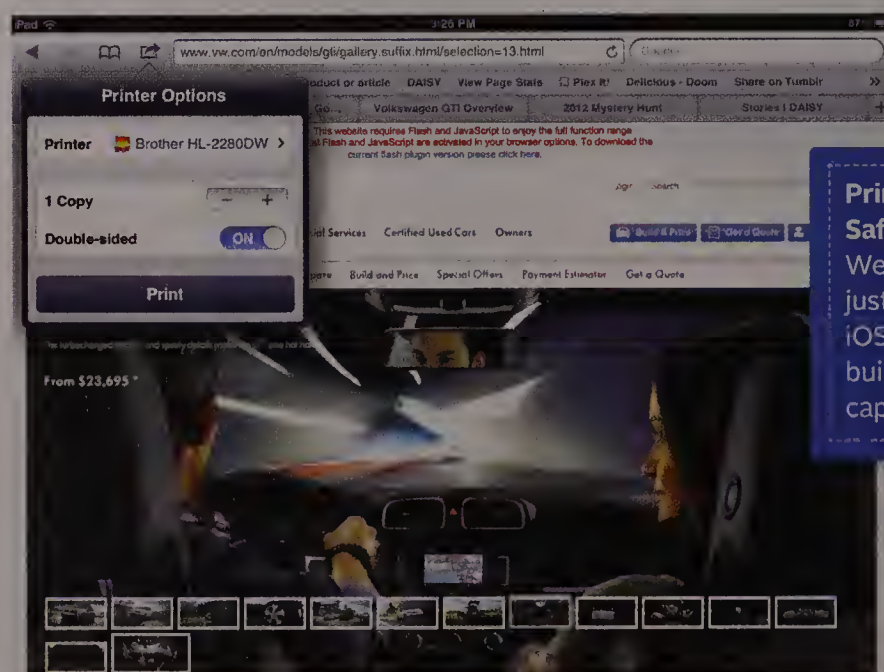
pane you install on your Mac.

With Printopia installed, you can send print jobs from any iOS device not only to any printer shared by your Mac, but also to a number of virtual printers. For example, you can "print" a photo and have it open in Preview on your Mac. Or you can turn a printable item into a file that gets saved to your Dropbox. You can even create workflows with the app that will turn printed documents into PDF mail attachments.

If you're looking to extend your printing options on the iOS device itself, turn to a program like EuroSmarz's \$20 PrintBureau, which comes in three versions: One that works on both the iPhone and the iPad (📱📱📱; macworld.com/7651), and then separate editions that work on the iPhone and the iPad, respectively. This program lets you open and print documents from the Web, your email, your contacts and calendars, and even other apps on your device. In addition to supporting AirPrint, PrintBureau also supports printing directly to other Wi-Fi-enabled printers.

Between the built-in Print Center app and third-party utilities such as Printopia and PrintBureau, you can print almost anything from your iPhone or iPad.

Dan Moren is a senior associate editor for Macworld.



INNOVATION UNVEILED



LOS ANGELES CONVENTION CENTER
JUNE 5-7, 2012

E3 is the world's most important annual gathering
for the video game industry.

REGISTER NOW at E3EXPO.COM



entertainment
software
association

E3 is a trade event and only qualified industry professionals may attend.
No one under 17 will be admitted, including infants. Visit www.E3Expo.com for registration guidelines.



WORK WITH PDFs

BY DAN MOREN

Working with PDFs is almost as easy in iOS as it is on the Mac.

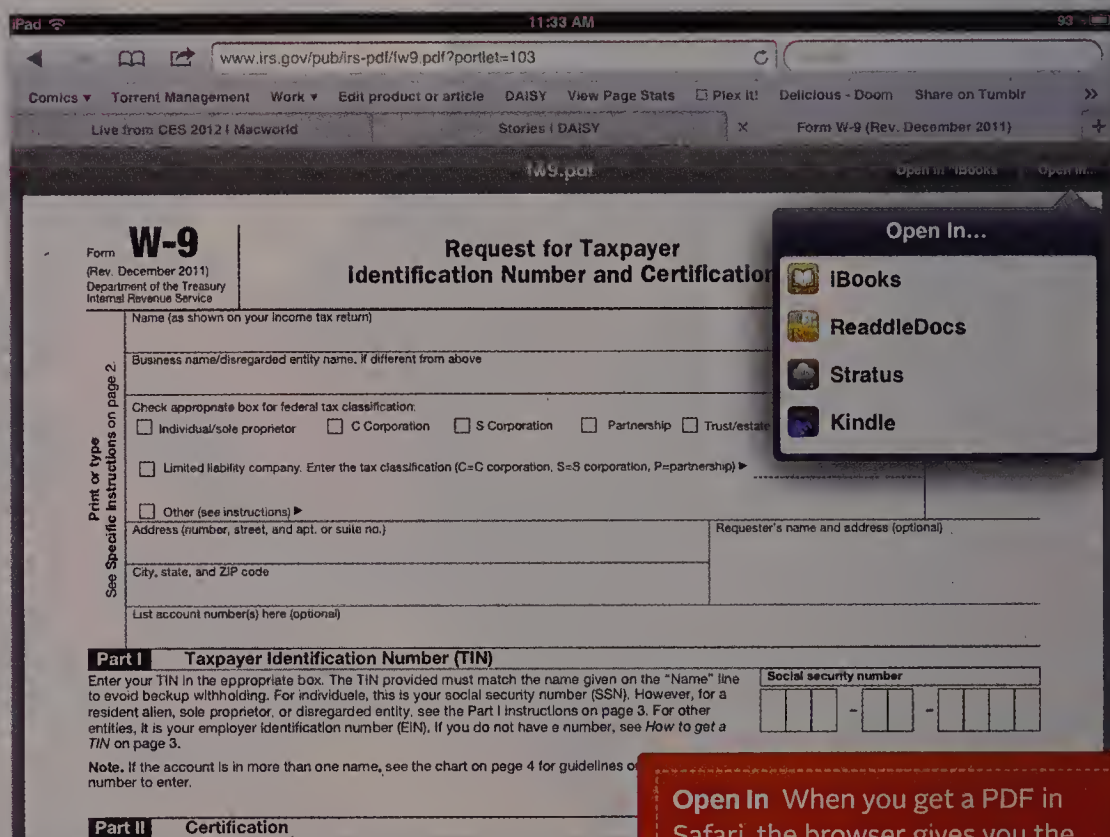
READING

The two places where you'll encounter PDFs most frequently are on the Web and in email.

In the first case, mobile Safari seamlessly loads the PDF, which you can then scroll, pan, and zoom by using standard iOS gestures. You can search the document by typing a term in Safari's search bar, scrolling down to the In This Document section, and tapping your search term. This highlights the term throughout the document, just as if you were searching a webpage on your Mac; you can cycle through the results by tapping the arrow keys on the bottom toolbar.

Working with PDFs in email is equally as simple: In a message, just tap the document to open it. Note that if the PDF is large, you may first need to download it; a dotted-line border around the PDF icon in an email denotes an undownloaded attachment. Once you've opened it, you can treat it more or less as you would a PDF you view on a website.

By default, all iOS lets you do is *view* PDFs. To do more, you'll need a third-party app. Fortunately, iOS makes it easy to open your document in another application, thanks to the Open In button. Tap it and the system shows you a list of every installed app that can open the PDF document in question. Tap any option, and iOS automatically launches the program, imports the document, and opens it for you. Added bonus: Because



iOS makes a copy of the PDF and stores it in the app opening it, PDFs that you open in third-party apps are available even when you're offline.

What you can do then depends on the app you're using. Both Apple's free iBooks and Amazon's free Kindle app let you search and bookmark pages. Good.iWare's GoodReader for iPad (\$4.99; macworld.com/7611) or iPhone (\$4.99; macworld.com/7652) and Readdle's ReaddleDocs for iPad (\$4.99; macworld.com/7653) or iPhone (\$4.99; macworld.com/7654) not only let you organize PDFs into folders, but they also provide annotation tools that enable you to write and draw on PDFs, highlight text, and make notes. In addition, they can hook into online services like iCloud, Dropbox,

and Google Docs, so you can ensure that your documents are shared with your other devices; they also let you easily print and email PDFs.

CREATING

Although Mac users have long been able to easily create PDFs from pretty much any document, that capability is, sadly, not built into iOS. For those of you who need to create a PDF while you're on the go, you'll need to download an app such as Adobe's CreatePDF (\$10; macworld.com/7655) or EuroSmartz's Save2PDF for iPad (\$4.99; macworld.com/7656) or iPhone (\$4.99; macworld.com/7657), which can create PDFs from text, RTF, and Microsoft Office documents, and more.

GREAT WEB HOSTING THE BEST VALUE SERIOUS BUSINESS

Superior Website Availability with 1&1 Dual Hosting

Your website is simultaneously
hosted in 2 locations in our
geo-redundant data centers!

Unlimited Access

65 Click & Build Applications.

1&1 BUSINESS PACKAGE

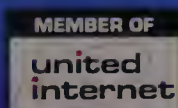
- **UNLIMITED** Web Space
- **UNLIMITED** Traffic
- **UNLIMITED** E-mail Accounts
- **UNLIMITED** MySQL 5
Databases (1 GB each)
- **UNLIMITED 24/7** Support
- **FREE DOMAIN** with
Private Domain Registration

~~\$9.99~~
per month

50% OFF*

YOUR PRIVACY IS IMPORTANT. WE AGREE.

That's why at 1&1, all domains come with FREE Private Domain Registration to protect your name, address, phone number and e-mail from spammers and identity thieves.



1-877-461-2631

www.1and1.com



1-855-221-2631

www.1and1.ca



* 12 month minimum contract applies. Visit www.1and1.com for billing information and full Promotional offer details.

Private domain registration is available for .com, .net, .org, .info, .biz, .tv, .mobi, .name, .ws, and .cc domains. Program and pricing specifications and availability subject to change without notice. 1&1 and the 1&1 logo are trademarks of 1&1 Internet, all other trademarks are the property of their respective owners. © 2012 1&1 Internet. All rights reserved.

9 USE BLUETOOTH

BY DAN FRAKES



Although you can connect accessories to your iOS device using the 30-pin dock-connector port on the bottom, or the headphone jack on top, many add-ons—including wireless headphones and speakers, phone headsets, and external keyboards—connect wirelessly using Bluetooth technology. You need to know how to set up those connections.

CONNECTING

Pairing associates a Bluetooth accessory with an iOS device. To do so, go to Settings ► General ► Bluetooth and make sure Bluetooth is set to On. With that done, your iOS device is *discoverable*—meaning that it's available for pairing.

Next, put the accessory in pairing mode. For most Bluetooth devices, this is as simple as pressing a dedicated connect button; in others, you hold down the power button. However it's done, pairing mode is usually indicated by a flashing or alternating-color light.

A few seconds after your accessory enters pairing mode, it should appear in the list of Bluetooth devices in iOS, with the words *not connected* to the right. Tap the accessory to connect to it. You may be prompted to enter a passcode: For audio accessories and phone headsets, you generally just type **0000** on your iOS device's keyboard; for Bluetooth keyboards, an on-screen message asks you to type a four-digit code on the

external keyboard. The accessory's status changes to *connected* and you can then use it.

USING

Once you pair a Bluetooth device with your iOS device, it should be *connected*—in other words, available for use—whenever it's on and within range (usually around 30 feet). When you turn on a paired Bluetooth device such as a keyboard, a headset, or headphones within range of your iOS device, the Bluetooth icon should appear in the iOS device's status bar, indicating that a device is connected.

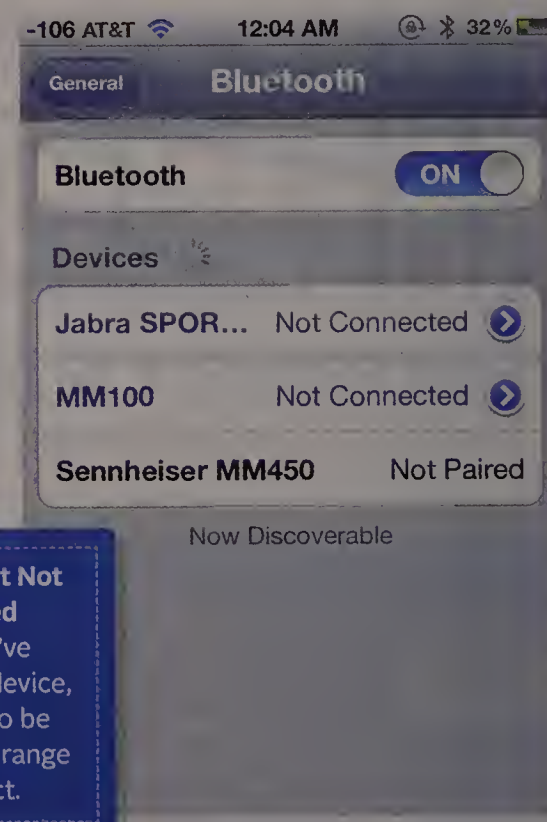
When you see that icon, the accessory should be usable without further fuss. Bluetooth audio devices can be the exceptions: When you're using a Bluetooth headset, tapping the Source button while on a call lets you switch between using the iPhone's earpiece and microphone, the iPhone's speaker and microphone, or the headset. When you're using Bluetooth speakers or headphones, tapping the AirPlay button in an app provides the option of sending the sound to your Bluetooth audio device: Tap the button and then choose the headphones or speakers from the menu.

MANAGING

Every Bluetooth accessory you've paired with your iOS device is listed in the

Bluetooth screen of the Settings app; each connected accessory displays the word *connected* next to it. If a device is paired and turned on, but it doesn't show up as connected, tapping its name in the list often leads to a successful connection; otherwise, you may need to turn the accessory off and then back on again.

If you want to delete a pairing so that you can use a particular Bluetooth accessory with a different device, just tap the blue arrow next to the accessory's name in the list, and then tap Forget This Device.



Paired but Not Connected
After you've paired a device, it needs to be on and in range to connect.

MacMania™ 15

Australian Eclipse • November 7–21, 2012



InSightCruises.com/Mac-15



If Australia's been on your radar, now's the time to make your move. Sydney Harbor, Gold Coast beaches, the Great Barrier Reef, New Caledonia's lushness, and a total solar eclipse(!) await.

Get the latest: productivity enhancements, mobility tools, the cloud, social media.

MacMania has prepared a pre-cruise expedition that adds a memorable dimension to your experience. If you'd like to get a flavor of elemental Australia, and boldly go where non-Ozzie tourists do not go, join MacMania for a visit to "The Bush" and "The Dish" (Australia Telescope National Facility, Parkes Observatory). After getting a look at the bright lights of Sydney, we head out to the quiet, sheep-studded New South Wales countryside to visit the famous

Parkes Dish radio observatory. "The Dish" received and broadcast the first lunar landing, Apollo 11, to 600 million people.

Reconnect with friends, learn, and add an unforgettable chapter to your bio. Contact concierge@insightcruises.com for details, travel options, pre-cruise excursions, and extensions to your Australian adventure.



www.InSightCruises.com/Mac-15
CO-PRODUCED BY:

Macworld

InSight Cruises
THE JOURNEY WITHIN

650-787-5665 • concierge@InSightCruises.com

Cruise prices vary from \$1,899 for an Interior Stateroom to \$7,299 for a Deluxe Suite, per person. The MacMania Program costs \$1,295. Taxes and fees are \$246 per person. Gratuities are \$11. Program subject to change.

For a full listing of seminars visit InSightCruises.com/Mac15-seminars

SEMINARS

The conference fee is \$1,295 and includes all 16 seminars below (at least six more will be added). You may take every class — i.e., there will be no overlap as only one class will be going on at any one time. Classes only take place when we're cruising, between 8:30am and 7:30pm.

DON McALLISTER

- ePublishing 101
- Reading 101
- It's All About the Numbers
- It's All About the Data
- Whole House Audio
- Location, Location, Location
- Living with the Cloud
- The Power of Speech

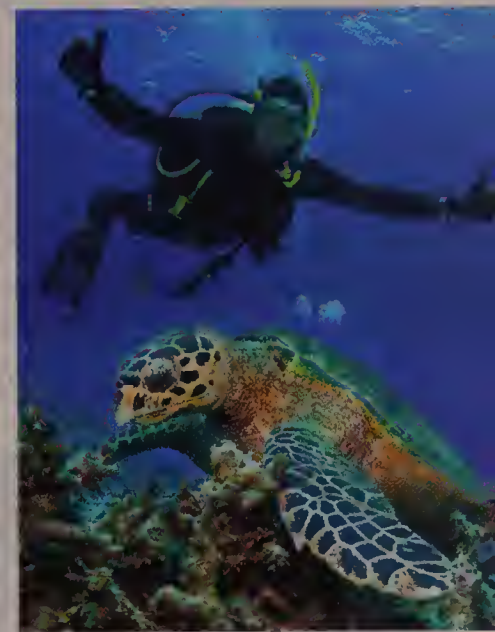
ALLISON SHERIDAN

- Creating Spectacular Documentation
- Turbocharge your Mac Productivity
- First Look at Accessibility on the Mac and iOS
- iOS Productivity Tools
- Video Conversion Made Easy for iOS
- Introduction to Podcasting
- Photography on iOS
- Security on Mac and iOS

SPEAKERS

Wally Cherwinski
Leo Laporte
Don McAllister

Allison Sheridan
Jason Snell
Sal Soghoian



CST# 2065380-40

Botanic Gardens and Taronga Zoo Tour

FULL DAY TOUR

November 6, 2012 (pre-cruise) (\$299 pp; \$199 as an add-on to the Parkes Observatory Tour, at right.)

Your adventure begins with a short transfer to the Royal Botanic Gardens in Sydney. Here you will embark upon a specialized tour to discover all that the Gardens have to offer.

After lunch we move to the Taronga Zoo where you will be met by Zoo Keepers and some of their friendly, cute, and cuddly counterparts before beginning your extended Australian Walkabout Tour. This is an exciting journey with an experienced guide, touring the Zoo's wonderful Australian animal displays.



Parkes Observatory

FOUR-NIGHT PACKAGE & TWO-DAY TOUR

November 3–7, 2012 (pre-cruise) \$1,999 pp based on double occupancy; \$2,599 single pricing. Includes eight meals, four hotel nights, all transportation and hotel transfers, and Observatory entrance fees.

Trip Includes: • Four (4) nights accommodation in the outstanding 4½-star Grace Hotel • Eight (8) meals as indicated per the above itinerary: four (4) breakfasts, two (2) lunches, and two (2) dinners • All land transportation (as listed on the above itinerary) • Entrance fees to all tourist sites (as listed on the above itinerary) • All transport is by 5-star charter coach. A commentary driver will be supplied for the travel to and from Parkes • Baggage handling, city and hotel taxes • GST (Goods and Services Tax)



10

COMMUNICATE SAFELY

BY GLENN FLEISHMAN

When you take your iOS device out into the world, strangers can indeed intercept your wireless connections. But a few simple steps can keep your communications safe.

SECURE EMAIL

By default, when setting up your email accounts, iOS configures them with the best available security; all of the prefab accounts, like Gmail, Yahoo, and AOL, default to secure connections. But if you're setting up an email account manually, you need to configure that protection yourself.

Go to Settings ► Mail, Contacts, Calendars, select Add Account ► Other, and then tap Add Mail Account. Enter the necessary information (name, email

address, and so on), and then tap Next. iOS tries to pull settings details from the mail host. If it can't, you must supply details about the incoming and outgoing mail servers. Fill in the values (you can get them from your ISP), and then tap Next.

If you enter this information correctly, iOS tries to set up secure incoming and outgoing connections. If it fails, it asks whether you want to proceed. Click Yes.

Still in Settings ► Mail, Contacts, Calendars, select the email account. Swipe down to the Outgoing Mail Server area and tap the mail server name. Tap the name under Primary Server and flip Use SSL to On. Next, enter a new port number in Server Port (often 587 for outgoing mail, but double-check with your ISP). Tap Done and then tap Account at the top. Now select Advanced at the bottom of the mail setup sheet. In Incoming Settings, flip Use SSL to On. Set Server Port to the provided value (often 993 for IMAP and 995 for POP), and then tap Done.

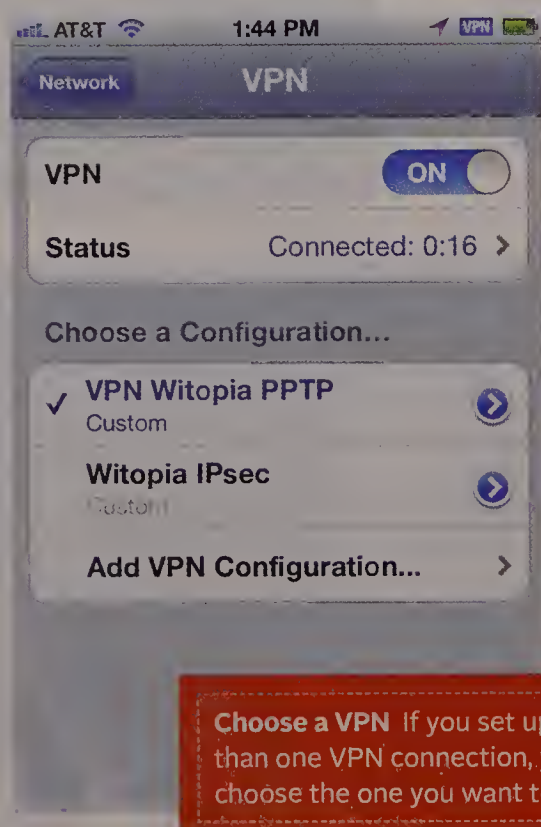
VPNs

To set up a VPN connection, go to Settings ► General ► Network ► VPN. Tap Add VPN Configuration, and then choose the type of VPN: L2TP, PPTP, or IPSec. (Your system admin or VPN provider should provide this and other details.) You can choose to enter a password, in which case iOS automatically enters it whenever you initiate a VPN connection; if you don't, you must enter the password each time you connect. When you're done, tap Save.

The VPN item now appears in the main level of Settings. To turn on a VPN link, tap VPN in the Settings app. Select the VPN connection you want to use; a checkmark appears next to the selected setup. Flip the VPN switch to On.

Note that you have to turn on the VPN each time you want to connect securely; iOS won't do it automatically.

Senior Contributor **Glenn Fleishman** is the author of *Take Control of Screen Sharing in Lion* (Take Control Books, 2012).



Choose a VPN If you set up more than one VPN connection, you can choose the one you want to use.

KEEP IT SAFE

BY SERENITY CALDWELL

With all the personal information you keep on your iOS device—passwords, contacts, phone numbers, and documents—you need to make sure it's secure from prying eyes and backed up in case you lose it.

PASSCODES

You can set one of two kinds of passcodes: numeric or alphanumeric. The first is a four-digit number code; the second can contain any number of letters, numbers, and symbols. The latter is obviously more secure, but it's also

harder to type in. The passcode will be required when anyone tries to activate your device. If the correct passcode isn't supplied after ten tries, iOS blocks access to your apps and data.

To set either kind of passcode, go to Settings ► Passcode Lock. If it isn't already on, and you want to use the four-digit number code, just tap Turn Passcode On; if you want to use a longer alphanumeric code, turn Simple Passcode to Off and then tap Turn Passcode On. In either case, iOS prompts you to enter your passcode twice. Assuming those two entries match, your device is now protected.

Once you've set a passcode, you can specify when you want to require it (tap Require Passcode and then select a time). You can also opt to have the data on your device erased if someone enters an incorrect passcode more than ten times. If you have an iPhone 4S, you can choose whether you'd like to enable Siri from the lock screen. When enabled, Siri can perform basic functions (sending text messages and emails, tracking contacts with Find My Friends, and more). If you try to do more, Siri prompts you to first unlock your phone.

Some apps (such as Dropbox) may require passcodes of their own when you launch them, to protect the specific data in those apps.

FIND A DEVICE

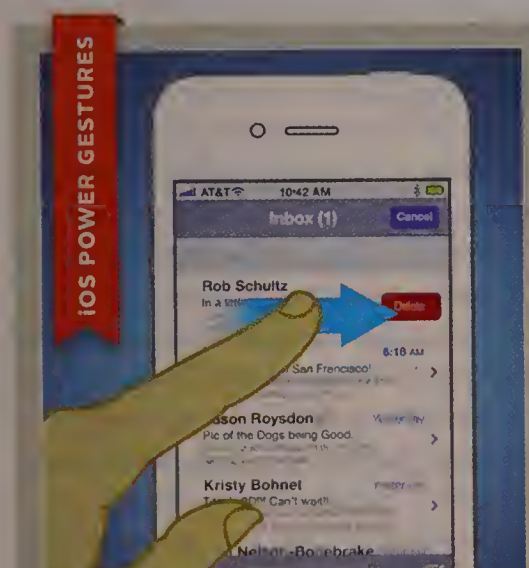
If your device gets stolen or misplaced, you can track it using Find My iPhone. Apple's free service allows you to locate a device, send a message or alert to it, and even lock and remotely wipe it. To use this service, however, you first need to enable it on your device. You can do so by going to Settings ► iCloud and turning on Find My iPhone. If you don't have an iCloud account, you'll need to create one first.

If your device *does* go missing, you can track it using the Find My iPhone app or via iCloud.com.

BACK UP

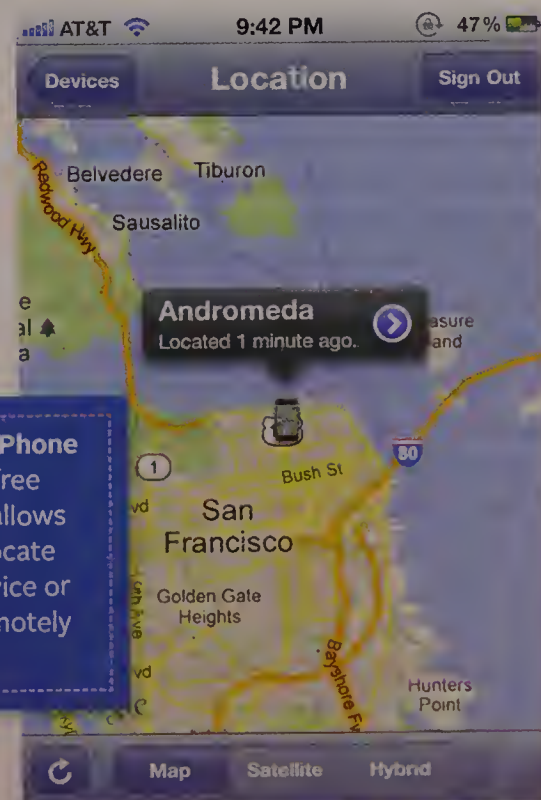
You can choose whether to back up your device's data to your computer or to iCloud. An iCloud backup is more current; with iTunes, your backups are only as recent as the last time you connected your device to your computer. To initiate an iCloud backup, head to Settings ► iCloud ► Storage & Backup, and turn the iCloud Backup toggle on.

You can make doubly sure that your data is safe by backing up your device to both iCloud and iTunes: When you connect to iTunes, change your Backup preferences under the Summary screen to Back Up To This Computer and click Sync; when the backup has finished, return the setting to Back Up To iCloud.



Items in Lists

In Mail, swiping sideways causes the Delete button to appear; tap it to delete a message. This action works similarly in other apps.



12

TROUBLESHOOT

BY TED LANDAU

Compared to fixing a Mac's problems, troubleshooting iOS devices is easy. Fewer things (or at least fewer serious things) can go wrong. But if something does go amiss, there are also fewer things you can do to fix it. This keeps iOS troubleshooting simple, but it also means that if your small bag of tricks doesn't do the job, there may be no way to fix your device without Apple's help.

PROBLEMS WITH A SINGLE APP

The most common iOS problems are specific to an individual app. These can range from one feature failing to work (you tap a button but nothing happens) to the entire app freezing. In the worst case, the app may crash, dumping you back on the home screen. Here are five potential remedies:

Force-Quit the App Assuming that the problem app did not crash, press the Home button to return to the home screen. From there, double-press the Home button to bring up the multitasking bar. Locate the icon for the app (most likely the first icon). Tap and hold on the icon until you enter edit mode, then tap the badge for the problem app. The icon should vanish from the multitasking bar. This is a force-quit, and it clears any trace of the app in active memory. Double-press the Home button to hide the multitasking bar. Launch the app again. With luck, the problem will be gone.

Check the App's Settings Launch the Settings app. Scroll down to see if the problem app is listed. If so, tap its name and check for settings that might resolve

your dilemma. A crash on launch may be due to the app automatically reopening a corrupt or otherwise problematic document. The solution would be to tell the app not to do that. So, for example, if GoodReader is having problems, enable its Don't Open Anything setting.

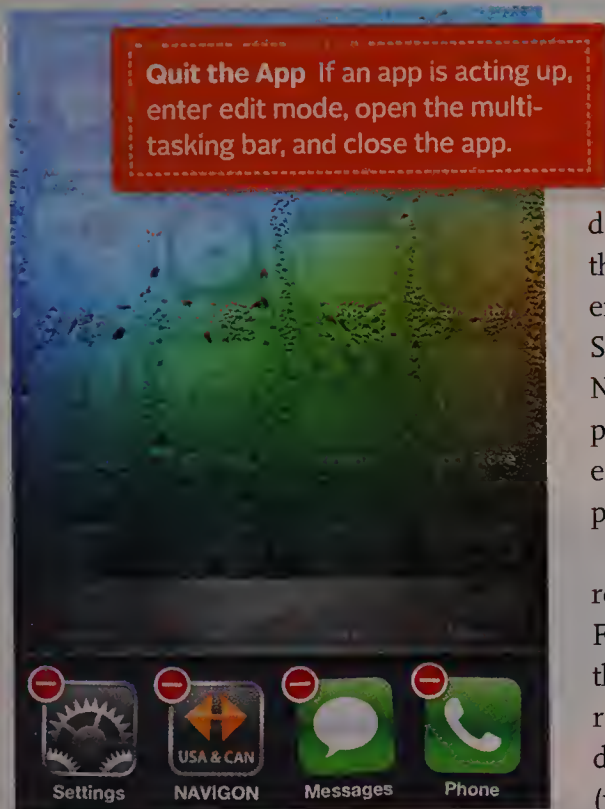
Restart the Device Some problems may result from an unusual convergence of circumstances that are not likely to repeat. In such cases, simply restarting the iOS device may provide the clean slate needed to eradicate the trouble. To do this, press and hold the On/Off button until the red Slide To Power Off slider appears. Slide it off. Wait until shutdown is complete; it may take a minute or so. Now press and hold the

On/Off button again to restart. The Apple logo appears; after a minute or so, you should be back at the lock screen.

Check for an Update If an app's flakiness is the result of a bug, you can't do much about it. You'll have to wait for the developer to release an updated version of the app with bugs fixed. However, it may be that this update already exists. To find out, go to the Apps section of the iTunes library on your Mac and click Check For Updates (or update directly from the App Store on your iOS device). If an update exists, install it.

Reinstall the App If there isn't a newer version of the app available, try reinstalling the same version. To do this, press and hold the app's icon on your





home screen to enter edit mode. Tap the X in the icon's upper left corner, and then tap Delete when asked. This removes the app from your iOS device.

Next, go to the App Store on your iOS device and choose to redownload the app (don't worry, you won't have to pay for it again): On the iPhone, select Updates, tap Purchased, and then select Not On This iPhone. On the iPad, select the Purchased tab and Not On This iPad. Alternatively, you can delete the app from your iTunes library on your Mac, download a new copy of the app, and sync your iOS device.

Warning: Deleting an app from an iOS device removes any data saved with the app, such as score data for games. After reinstalling the app, you may be able to retrieve the data via a backup. To attempt this, connect the iOS device to iTunes on your Mac, Control-click the device's name in the left column, and, from the contextual menu that appears, select Restore From Backup.

PROBLEMS WITH MULTIPLE APPS

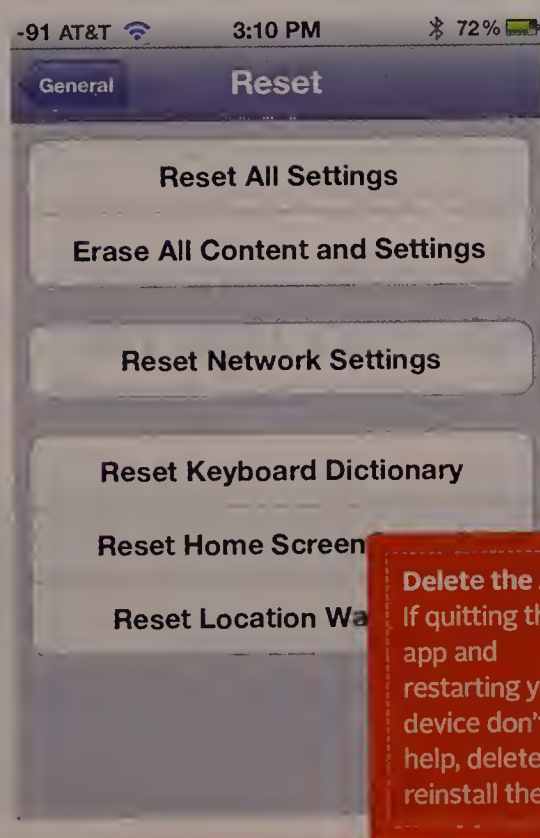
Occasionally, a symptom may extend beyond an individual app. Maybe almost all your apps crash on launch or run unusually slowly. Maybe none of your apps can get online. Or maybe you have a single-app problem that none of the

remedies above resolved. In such cases, first restart the iOS device. If that fails, you've got other options.

Reset For online problems, let's assume that all Wi-Fi and cellular data settings are correctly entered and the relevant options are properly enabled. If so, the next step is to go to Settings ► General ► Reset and tap Reset Network Settings. For more general iOS problems, tap Reset All Settings. After either reset, you'll need to reenter any prior customized settings.

Restore There are two ways to restore. The simplest one is the Restore From Backup command. Try this first. If that doesn't help, it's time for a full restore. This completely erases your iOS device and reinstalls the iOS software (updating to a newer version if one exists) before restoring your backed-up data. To initiate this, connect your iOS device to iTunes on your Mac and select Restore from its Summary screen.

Fix Restore Errors Sometimes (though rarely), an attempted restore (or even an iOS update or device sync) will fail. When this happens, you typically get an error message that includes a number. For example, the message may read: "iTunes could not sync to the iPhone *iPhonename* because an unknown error occurred (-19)." The key information here



is the number. An Apple support article lists most of the possible numbers, with specific advice on what to do in each case: Access the article at support.apple.com/kb/TS3694.

THE DEVICE WON'T BOOT OR RESTART

The most anxiety-provoking symptom you can have is an iOS device that fails to start up: You cannot get the lock screen or home screen to appear after a restart. Most often, you wind up with a useless black display. You have two options here.

Reset the Device Press and hold the On/Off button and the Home button simultaneously for around ten seconds. This tries to force a restart. If you're lucky, it succeeds.

Put the Device in Recovery Mode This is the fix of last resort. Do it only if all else has failed. Press and hold the On/Off and Home buttons simultaneously until the screen goes black. Then immediately release the On/Off button, but continue holding the Home button. Eventually, you should see a screen showing a USB plug and the iTunes icon.

Connect the iOS device to iTunes on your Mac, as the screen suggests. A message should appear on your Mac saying, "iTunes has detected an iPhone in recovery mode." At this point, opt to do a full restore. Eventually, you'll be asked whether you want to restore from your backup or set up the device as new. Select the backup option, choosing between iTunes versus iCloud backups as appropriate to your situation. If this fails, your backup data may be corrupt. Try again, setting up the device as new. Doing so means abandoning your backup data. But, if it succeeds, at least your iOS device will be working again.

If all attempts fail, and you can't successfully diagnose any error number that appears, it's time to set up an appointment with the Geniuses at an Apple Store.

Senior Contributor **Ted Landau** is the founder of MacFixIt (www.macfixit.com) and the author of *Macworld's Bugs & Fixes* column.

WORKING MAC

Tips, Tricks, and Tools to Make You and Your Mac More Productive

Think Clean

Simple ways to clear the grunge, dirt, and dust from your computer and peripherals

BY KIRK MCELHEARN

It's spring: time to give your Mac the once-over to make sure it's spick-and-span. I'm not talking about deleting cache files or removing old apps you no longer use. I'm talking about cleaning your Mac's screen and keyboard, or its dusty, grungy innards. It's not a difficult chore, and keeping your Mac clean helps it run smoother and can also help keep you from getting sick. Here's how to do it.

Reclaim Your Keyboard

It's a fair bet that the dirtiest part of your Mac is its keyboard. Even if you wash your hands every time you sit down to type, the keyboard still collects germs and sweat from your fingers, as well as the dust in your room or office. This can make for sticky keys and can transfer cold viruses, or worse.

To start, unplug your keyboard from your computer or, in the case of a wireless keyboard, remove its batteries. (If you're cleaning a laptop keyboard, shut down the computer and unplug the power adapter.) Blow out any dust with a can of compressed air.

The dirtiest part of your Mac is its keyboard. Even if you wash your hands every time you sit down to type, it collects germs and sweat.

Next, clean your keys with disinfecting wipes. (Apple recommends Lysol and Clorox disinfecting wipes.) Since the alcohol evaporates, there's no risk of liquid damaging the keyboard, and it's a better disinfectant than soap.

If you don't have wipes, you can put a drop of standard dishwashing detergent in a glass of water. Soak a soft cloth in



this concoction and then wring it out until it's barely damp. Now gently wipe the cloth over the keys to get rid of the dirt and grime.

Rinse the detergent out of your cloth, wring it out, and then finish up by wiping your keyboard off again. Be very careful not to get water under the keys. (This is especially important if you're

cleaning a laptop.) Clean your keyboard regularly, to make sure that no germs fester under your fingers.

Prevent Keyboard Grime

If cleaning your keyboard proves to be a thornier chore than you expected, or if you have a new keyboard you want to protect from pet hair, cookie crumbs,

and the like, you might want to use a keyboard protector, such as iSkin's ProTouch (\$25 to \$35; www.iskin.com), a silicone keyboard film that's easy to pop off and wash.

You can get one for your desktop keyboard and one for your laptop, so when you're out in a coffee shop, say, you can make sure that no spilled liquids get under your keys (see "Snack Shield").

An even thinner option is the \$25 Moshi ClearGuard CS for an Apple Keyboard (macworld.com/7622). Moshi also offers a line of ClearGuard protectors for laptop users (macworld.com/7623).

Dust Up

While most Macs today are designed so you can't open them, the Mac Pro remains the one model that's easy to get inside. Unfortunately, because of the way it's designed, it also collects a lot of dust. I had one for several years, and found I had to clean it every few months.

It's OK to vacuum the outside of your computer with a standard vacuum, but you want to avoid using it on the inside of your Mac because of the possibility that static electricity from the vacuum could zap its electronics. Instead, purchase a vacuum specifically designed for electronic components (see macworld.com/7621 for suggestions) or use a battery-powered vacuum. Alternatively, haul the computer outside and blow the dust out with compressed air.

I open my Mac Pro—after turning it off and unplugging it, of course—and vacuum out dust from some parts of it, notably the CPU and RAM areas. If I slide out the hard drives, I can get further inside the Mac Pro and get dust out of the nooks and crannies. I use a can of compressed air to access the tightest corners.

Other Macs are harder to remove dust from. The iMac, for example, has inputs below the display and a large exhaust vent at the top, behind the display. With a powerful vacuum cleaner, you can suck some dust out of the bottom, but it isn't easy, and it probably won't help much.

The current Mac mini doesn't seem to collect a lot of dust, but you can open the round bottom cover and check inside to see if there's an accumulation of dust or pet hair that you can remove.

Clean the Screen

I keep a microfiber cloth—the kind you use to clean eyeglasses—handy to clean my Apple display. Sometimes I see little spots on the screen; I just breathe on them, the way I do with my glasses, and use that cloth to wipe away the offending grime. Apple recommends that you use a soft, slightly damp, lint-free cloth to clean screens more thoroughly. (See all



Snack Shield

The iSkin ProTouch keyboard protector is easy to wash, and you can choose from multiple colors. (There's even a glow-in-the-dark version.)

of Apple's official cleaning recommendations at macworld.com/7624.)

In case of disaster—say you spill something sticky on your laptop—you may want to keep a special monitor cleaning product on hand. You can buy many kinds of monitor wipes, pre-treated with appropriate cleaning solutions, from companies such as iKlear (www.klearscreen.com) and RadTech (www.radtech.us).

Tidy Up behind the Scenes

I sent my iMac in for servicing, and when it returned, I thought it had a dead pixel. When I looked closer, though, I realized that there was a bit of dust behind the screen; actually, between the display's plastic cover and the actual display. To my surprise, it was easy to remove the front cover to clean this out. (Beware—doing so may void the warranty.)

To try this, find a suction cup that's at least a couple of inches wide (most home and kitchen stores carry these). Press it onto the black bezel near the

top of the display. (Don't worry, you can wipe off any marks from the suction cup later.) Pull gently, and you'll find that the plastic cover of the display comes right off; it's held onto your Mac or your display by magnets. (This is the case for Apple's current and recent iMacs, and its displays surrounded by black bezels.)

Clean off the inside of this cover with a soft cloth, put it back into place starting from the bottom edge, and then let the magnets do their work. (You can watch a helpful video of this process at macworld.com/7625.)

Spring-Clean Year Round

While you don't need to be obsessive about cleaning your Mac, these simple tips can help you spruce it up regularly.

Senior Contributor **Kirk McElhearn** writes about more than just Macs on his blog, Kirkville. He is also the author of *Take Control of iTunes 10: The FAQ*, second edition (TidBits Publishing, 2012).

Cable Charmer

Simplify the snakes' nest of cables in your travel bag with the \$20 Magic Cable Trio from Innergie (www.innergie.com). This three-in-one USB cable has a standard USB connector on one end. The other hosts an iPod dock connector, a Mini-USB connector, and a Micro-USB connector, neatly stacked on top of each other. That's all you need to charge and sync an iPod, iPhone, iPad, and more.—SCHOLLE MCFARLAND



Why I Use Scrivener for Business Writing

Using Microsoft Word out of habit? Here's another choice.

BY DAVID SPARKS

Several years ago, I took a critical look at the tools I was using for my business writing. Specifically, I asked myself why I was still using Microsoft Word as the one-size-fits-all tool for everything I wrote. In the course of that questioning, I discovered a most unlikely tool for better business writing: Literature & Latte's \$45 Scrivener (★★★★½; macworld.com/a/155903).

Originally designed for writing fiction, Scrivener provides an integrated researching, organizing, and writing environment that makes moving ideas from your brain to the screen faster and more efficient.

One Place for Research

One challenge with any big writing project is collecting and tracking research. Scrivener includes a research binder that can hold text, PDFs, webpages, pictures, video, and most other digital media.

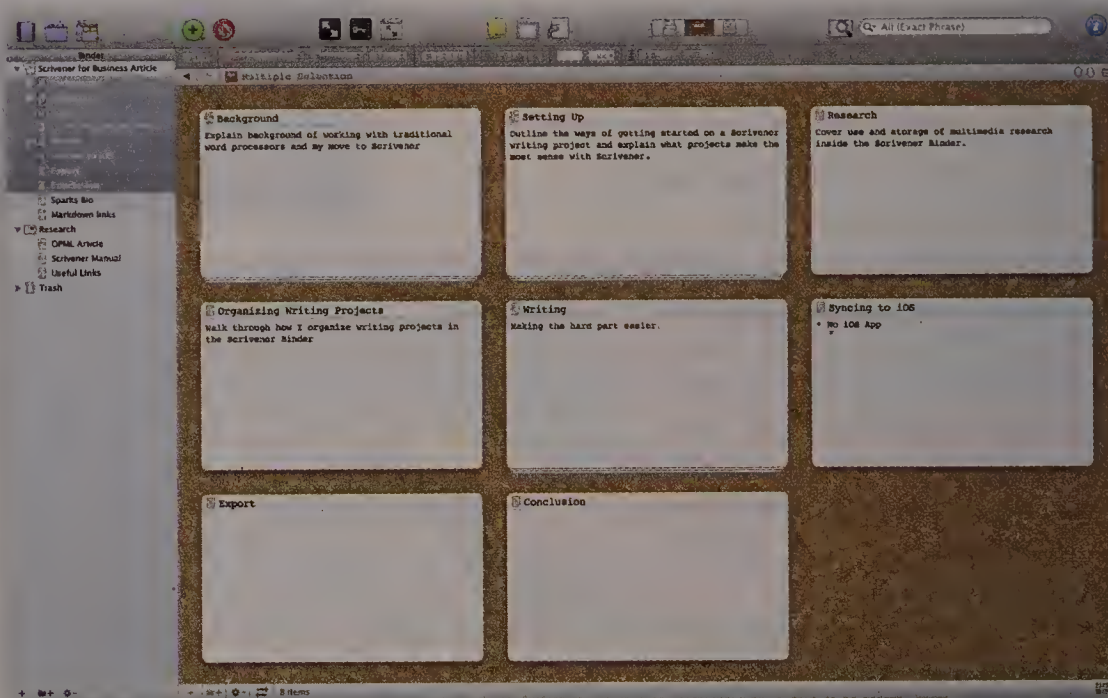
Anytime I run across a resource that could be helpful for one of my projects, I just drag and drop it into the program. Later, I can jump between writing and research views—or split Scrivener's screen so both are displayed at once.

Organizing Tools

Scrivener makes it easier to organize my writing. I can import the outlines and mind maps I've built in other apps into Scrivener. Scrivener then creates a hierarchical set of binder items that matches each outline or map.

I may have binder entries for an introduction, an explanation of facts, and specific arguments. Each one of those entries may contain further subparts. I create all of these in Scrivener's binder (or import them from an OPML file—the XML format for outlines). Then I make further tweaks with the program's organizational tools.

Remember those index cards you used to stick to a wall in school? Scrivener



Old-Fashioned Organization Scrivener's corkboard is a great tool for organizing all kinds of documents. Move index cards around to reorganize the parts of your project, or look ahead at the summaries you write here to see what you need to do.

re-creates that experience with its digital corkboard. But that board is more than an interface gimmick: Moving cards around on it often leads to new insights about a project. (If you prefer, you can use the outline format instead.)

Getting Down to Writing

All of my research and organization pays off when I start writing in Scrivener. For most projects, I first assemble most of my research and organize the documents. If I feel myself getting stuck on one part, I can look through my Scrivener binder and find a piece of the project that I'm more in the mood to write, and soon I'm back to typing.

When I write legal briefs, I often start with some of the complex arguments that will ultimately be buried in the center of the document. Why not? Since I've already gathered all of my research, I can attack the problem head-on. I often use full-screen mode, which hides tempting diversions like Twitter and email, when I'm tackling tough parts.

Other Important Aspects

There's no Scrivener iOS app, but Scrivener supports syncing its data with Codality's free note-taking app, Simple-note (★★★★½; macworld.com/7627), and the Dropbox storage service (★★★★; macworld.com/a/156705).

Scrivener is not a traditional word processor. It doesn't have most of the advanced layout tools found in Microsoft Word and Apple's Pages. If you need those features, you can compile your completed document into several formats, including Word, RTF, HTML, OpenOffice, Final Draft, and ePub.

What makes Scrivener so useful is the way it replaces traditional word processor features with writing tools. Even though this program was created for novelists and scriptwriters, it can work remarkably well for the rest of us, too.

David Sparks is an attorney, the editor of the MacSparky blog (www.macsparky.com), and the author of *Mac at Work* (Wiley, 2011) and *iPad at Work* (Wiley, 2011).

UDDERLY FANTASTIC WEB HOSTING

only
56/yr.

**NO BULL MONEY-BACK
GUARANTEE**

Creating a website is easy with FatCow.



Fast, Secure & Reliable

Our robust hosting platform is the perfect home for your business or personal website.



Build a Site in Just 10 Minutes

Create a website with just a few clicks, using a variety of dynamic themes and templates.



Free Advertising Credits

Market your great new site with ad credits from Google™, Yahoo!™, and Facebook™.



Free Domain Name

Signing up means you get your very own domain name for FREE with your hosting account! It's moovelous!



It's Easy Being Green

Web hosting is extremely energy intensive. At FatCow, we power our server farm with 100% wind energy.



Friendly Moo Crew Support

We're here to help. Our friendly Moo Crew is available 24x7 via phone, email and online chat.



FatCow™

866-544-9343

Visit us at **fatcow.com/macworld**

Back Up Your Apps

Safeguard yourself against dud iOS updates by automatically saving old versions of apps

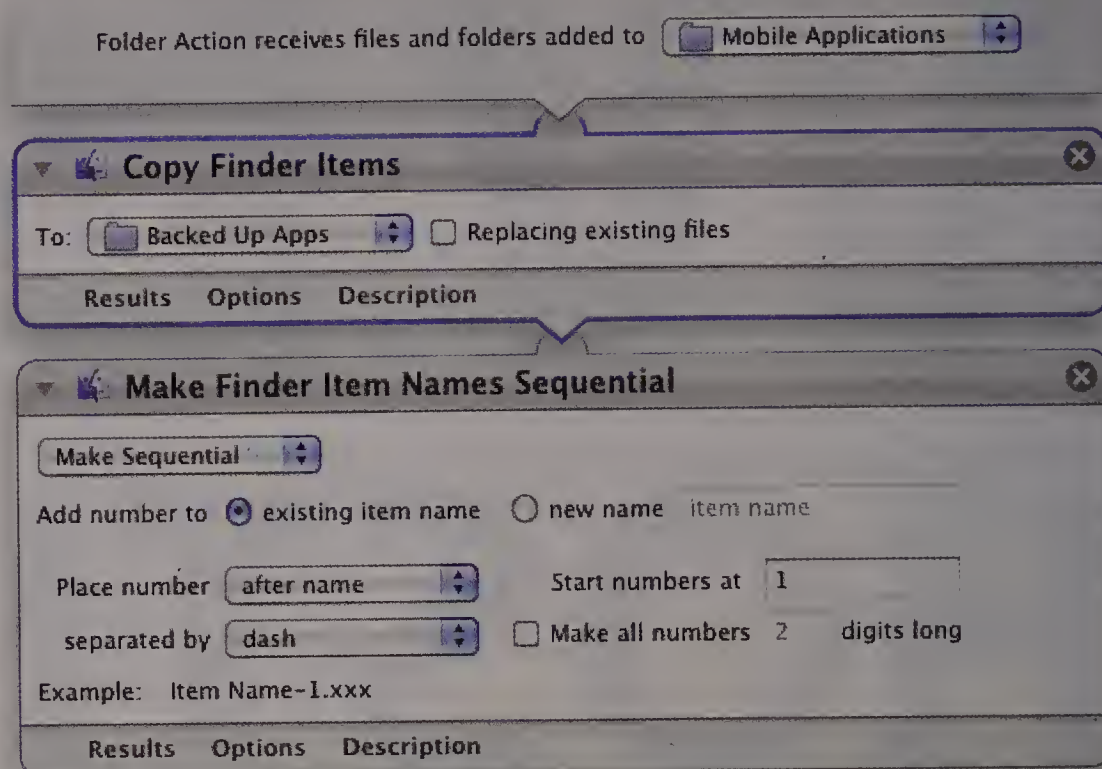
BY CHRISTOPHER BREEN

Many of us expect updates to our iOS apps to provide greater stability as well as attractive new features. But in some instances, that isn't the case. A recent Twitter app update, for example, infuriated some users because of its rearranged interface and the omission of beloved features found in earlier versions.

Making matters worse, when you update an app using iTunes, the previous version of the app is tossed in the Trash. Should you empty the Trash, good luck trying to revert to the older version. Fortunately, with the help of Automator, it's easy to make copies of your iOS apps so you can easily revert.

Make a Workflow Launch Automator (in your /Applications folder). In the sheet that appears, choose Folder Action. Click Choose. Select Files & Folders in Automator's first column. From the second column, drag the Copy Finder Items action and then the Rename Finder Items action into the workflow area to the right.

In the Finder, create a new folder called Backed Up Apps and place it in your Documents folder. Drag this folder to the pop-up menu within the Copy Finder Items action. In the second action, click on the first pop-up menu and select Make Sequential. The Place Number pop-up menu should read After Name and the Start Numbers At field should read 1.



The Completed Workflow This is how your workflow should look after you assemble it.

In the Finder, navigate to the Mobile Applications folder, which by default is found in *yourusername*/Music/iTunes. Drag the Mobile Applications folder to the Folder Action Receives Files And Folders Added To pop-up menu at the very top of your workflow. Save and name your workflow.

Watch It Work You have now attached a folder action to the Mobile Applications folder. Whenever you add anything to this folder, a copy of that item is also created in the Backed Up

Apps folder. Should you be unhappy with an update in the future, simply replace it with a previous version stored in your Backed Up Apps folder. (Keep an eye on the folder so that it doesn't get too big.)

If you'd like to save a backup copy of the apps you have right now, go to the Finder. Open the Mobile Applications folder (in *yourusername*/Music/iTunes), select everything inside, and then Option-drag the files to the Backed Up Apps folder you created.

The Women's Netbook Briefcase

The \$70 Women's Netbook Briefcase from Mobile Edge (macworld.com/7626) does a good job of looking stylish enough for a professional woman without crossing over into giant-purse territory. This bag is undeniably a briefcase, but the faux-leather-on-microfiber exterior adds a touch of panache to an otherwise plain accessory. Thanks to its reinforced bottom and thick sides, along with a padded sleeve, the bag gives your laptop considerable protection, yet it's surprisingly light. You can secure a 13-inch MacBook Air or MacBook Pro with a thick, Velcro-like fastener, and the bag provides plenty of pockets and straps to hold pens, chargers, notepads, and more. It also includes a matching cosmetics pouch, which, depending on your preferences, happens to be just the right size for a MacBook's AC adapter. —LAUREN CRABBE



RightSignature | Sign Documents Online, Electronic Signature, e-Signature

GetRightSignature.com RightSignature LLC Google

Sign Document YOUR PROGRESS 67%

WHAT TO DO NEXT You have 1 Item to fill-in on Page 5 NEED HELP?

Name Martin Vickersberg

Company ABC Gizmotronics, Inc.

City Chicago State IL

Email Phone

REQUIRED

I hereby agree to the above legalese, and certify that I have the authority to enter into this agreement.

Signature: Martin Vickersberg Date: 03/01/2012

Martin Vickersberg
I AGREE TO THE CONTENTS OF ALL PAGES ABOVE WITH AN ELECTRONIC SIGNATURE

SUBMIT SIGNATURE

GET YOUR DOCUMENTS FILLED OUT & SIGNED ONLINE.

Obtain legally-binding e-signatures on **Contracts, NDA's, Forms** – any document you need completed – with just a few clicks. It's as easy as sending an email. Your customers, employees, and other recipients fill out and sign online or on a mobile device. No printing, no faxing, no scanning, no hassle!

- Upload any Document**
PDF, Word DOC, Pages, Google Docs, and more. Connects with Dropbox too.
- Legally Binding Signatures**
The ESIGN Act and other laws guarantee the legal validity of e-signed documents.
- Simplify Your Work Life**
Save time, cut expenses, impress your clients, and close more deals.
- Your Clients Sign Online**
Recipients review, fill out, and sign on a Mac, PC, iPad, or iPhone, from anywhere.
- The Trusted Standard**
Over 100,000 professionals and businesses of all sizes use RightSignature.
- Easy to Use**
Completely web-based. Get started in 1 minute.

RightSignature
Easy Online Document Signing

**Free Trial
for MacWorld
Readers!**
GetRightSignature.com

"great"
ZDNet

"simple"
Fox Business

"elegant"
ReadWriteWeb

"intuitive"
Inc. Technology

REVIEWS

Hardware and Software for
All Your Business Needs



HARDWARE

HP Envy 110 e-All-in-One ▴

The HP Envy 110 e-All-in-One inkjet multifunction printer looks like a classy VCR and prints lovely photos. It's also fully equipped for cloud printing and is compatible with Apple's AirPrint technology (for printing from an iPad or iPhone). Is all that enough to make you forget its costly inks? Aesthetically oriented home and small-office users who don't print much might be willing to make the trade-off. The Envy 110 e-All-in-One forgoes basic black for a dark-mocha casing with copper-colored metal accents. Thanks to its extremely low profile—just 4 inches high—it can sit discreetly on a deep shelf. The Envy 110 e-All-in-One prints, copies, and scans, but doesn't fax. SD Card, Memory Stick, and USB or PictBridge slots are included for printing directly from flash memory. Although automatic duplex printing is standard, the bottom-mounted input tray holds only 80 sheets. The quality of prints, scans, and copies was very good overall. The ink cost is the problem. The HP 60 black cartridge lasts for 200 pages and costs \$15, or 7.5 cents per page, while the HP 60 unified color cartridge lasts for 160 pages and costs \$20, or 12.5 cents per page. That's a whopping 20 cents for a four-color page.

★★★★; \$250; HP; www.hp.com

LaCie d2 Quadra USB 3.0 2TB ▸

Looking for a drive that has FireWire 800, eSATA, and USB 3.0? The LaCie d2 Quadra USB 3.0 hard drive features all of these connectors, as well as zippy transfer rates. The drive comes with a three-year limited



warranty and all the connection cables except a FireWire 800-to-FireWire 400 cable; LaCie sells that last one for \$13, but you can find such a cable for less online. You can place the drive on its side or stacked. LaCie provides a stand for using the drive vertically. The d2's speed results were top-notch. In the USB 2.0 Read Folder test (38.0 megabytes per second, or MBps), USB 2.0 Read File test (39.8 MBps), FireWire 800 Write Folder test (71.6 MBps), and FireWire 800 Read File test (87.3 MBps), the d2 bested every other drive we've tested so far. In other tests, the drive was quite competitive. We also tested the drive using the LaCie USB 3.0 PCI Express Card (\$50); we found the speeds in that configuration to be just a hair faster than the drive's FireWire 800 results. With lots of connection options and rapid transfer rates, the LaCie d2 Quadra USB 3.0 is easy to like.

★★★★½; \$260; LaCie; www.lacie.com

Plantronics Savi 440 ▽

If you use speech-recognition technology, you need a great microphone.

The light Plantronics Savi 440 uses Digital Enhanced Cordless Telecommunications (DECT) technology (commonly used for telephones in Europe) instead of Bluetooth. DECT offers wideband audio for better sound quality and increased range, but it costs more than a comparable Bluetooth microphone would. To ensure that the headset is comfortable even for long periods of use, you can change the configuration from an over-the-head headband with a cushioned earpiece to a behind-the-neck headband or an over-the-ear earpiece. The headset's boom is longer than those of Bluetooth headsets, providing better pickup and better noise cancellation. In our testing, the Savi 440 offered the second-best recognition after the



SpeechWare TableMike (macworld.com/7665). You charge the microphone with a USB charging cable or a charger base. Unfortunately, the software available for the device is Windows only, which means you won't be able to access some helpful settings and tools, including a battery life indicator. Still, if you want a light, comfortable wireless microphone, the Plantronics Savi 440 is a great choice. It offers excellent audio quality for speech-recognition software, and it works well with other speech technologies, such as audio chats in iChat or Skype.

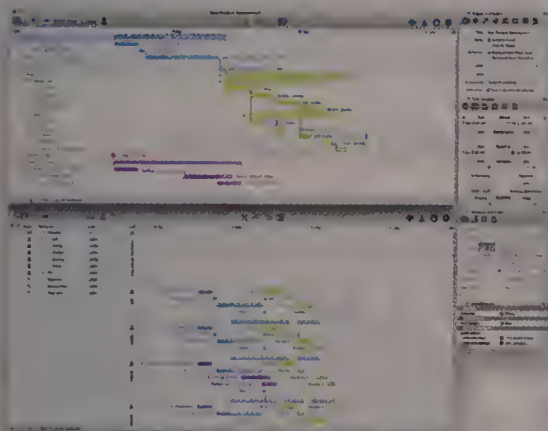
★★★★; \$280; Plantronics; www.plantronics.com

Rocstor Eagleroc E9 2TB ▸

It's hard to stand out in the crowded market for external hard drives, but the Rocstor Eagleroc E9 does just that by focusing on design. The drive has a trapezoidal shape and is made of a rubberlike plastic that feels nice to the touch and comes in red, black, gray, and yellow. Rocstor includes an AC adapter, a quick-start guide, cables for USB 2.0 and FireWire 800, and a FireWire 800-to-FireWire 400 cable. The Eagleroc is preformatted as a FAT32 drive, which makes it compatible with both the Mac and Windows PCs, but if you want to use Time Machine, you'll have to reformat it. The drive's activity light blinks very brightly, drawing perhaps too much attention to itself. As for speed, the Eagleroc's USB speeds are competitive with those of other drives we've tested, but its FireWire 800 scores didn't fare as well. The Eagleroc's posted read scores came in as slower than those for almost every drive we've tested. The drive placed in the middle of the test group for our low-memory Photoshop test. The Rocstor Eagleroc E9 has a unique look and



generally performs well, but it has a few drawbacks that keep it from being great. ; \$300; Rocstor; www.rocstor.com



SOFTWARE

OmniPlan 2.0.3

The Omni Group's OmniPlan is designed to give you the broad view of big projects while still keeping you focused on the details necessary to make sure all your resources are in place and the project finishes on time. OmniPlan makes quick work of project-management basics. Tasks, resources, and a complete project schedule are easy to create, and once you have those in place it's easy to link, rearrange, and reschedule every aspect of a project. If certain aspects of a project are out of sync—for example, if something you've scheduled for tomorrow depends on something that you won't complete until next week—OmniPlan provides visual cues to help you see where the schedule is not working. You can add notes, documents, and images to each task, and synchronize projects with a centralized server repository. The program currently supports CalDAV, WebDAV, Google, MobileMe, and Omni Group's OmniSync server, but at the time of this review, it didn't have any iCloud support. You can export OmniPlan files in formats including everything from CSV, PDF, OmniGraffle, and OmniOutliner files to Microsoft Project's XML and MPX formats. OmniPlan is a best-of-class project-management application that offers the kinds of features that make large-scale project management as easy to keep track of as a simple to-do list.

; \$200; The Omni Group; www.omnigroup.com

Top Products YOUR GUIDE TO THE BEST HARDWARE WE'VE TESTED



HARD DRIVES Desktop

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
AV Drive www.caldigit.com		\$189 (1TB)	USB 3.0	6757
iT1 Dock www.istoragepro.com		\$329 (2TB)	quad interface	5843
SoloPro (pictured) www.iosafe.com		\$250 (1TB)	USB 2.0 and 3.0	7136



HARD DRIVES Portable

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
ioSafe Rugged Portable SSD www.iosafe.com		\$499 (120GB)	single interface	7559
Mercury Elite-AL Pro Dual mini (pictured) eshop.macsales.com		\$180 (640GB)	triple interface	7256
My Passport Essential www.wdc.com		\$90 (500GB)	single interface	7521



INPUT DEVICES Keyboards, Mice, Pen Tablets

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Intuos4 Wireless intuos.wacom.com		\$357	pen tablet	6422
Magic Trackpad www.apple.com		\$55	trackpad	6436
Wireless Solar Keyboard K750 (pictured) www.logitech.com		\$60	keyboard	7560



PRINTERS Laser

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
5130cdn (pictured) www.dell.com		\$1135	LED, color	6009
C544DN www.lexmark.com		\$366	LED, color	4356
Color LaserJet CP2025dn www.hp.com		\$392	LED, color	4823



PRINTERS Multifunction

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Color LaserJet CM1312nfi www.hp.com		\$349	laser	5183
Pixma MG6120 www.usa.canon.com		\$102	inkjet	7254
WorkForce 840 All-in-One (pictured) www.epson.com		\$150	inkjet	7323

^A All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. ^B In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

BUSINESS CENTER

News and Analysis about
Macs in the Workplace



Record and Transcribe Meetings with the Microcone

Dev-Audio's Microcone (www.dev-audio.com) is a microphone designed to record group meetings. But it isn't just a mic: The small, cone-shaped device contains six separate directional microphones. You put the Microcone in the middle of the table and start talking. As each person speaks, the closest mic picks up what he or she is saying. (This is only effective in meetings with six or fewer participants.) The Microcone relays each person's voice as a separate audio signal to your Mac (via USB).

The Microcone Recorder app then processes and records each of those individual audio streams; they appear as separate tracks in a timeline. That's when things get interesting. You can isolate what one person said and play it back or save it. You can also tag tracks or segments of the timeline to reference and search later. A Talk Time feature shows how long each person spoke. And you can send tracks to the Nuance Web service for transcription. That last option requires a separate Nuance account, which charges for use (www.nuance.com). The Microcone itself costs \$359; the Recorder app is \$5.—**DAN MILLER**

iPad App Can Showcase (and Sell) Products

Xsilva Systems' point-of-sale app, LightSpeed for iPad (www.lightspeedretail.com), enables businesses to track inventory, take payments, and perform other retail tasks while in the field. But what might *really* catch your eye is LightSpeed for iPad's Show & Tell capability, which allows a retailer to display product images and details splashed across a stylized backdrop.

Xsilva says that it's a great way to show off inventory that's not close at hand, helping sales reps better connect with customers. It's also easy to see how a retailer might use the Show & Tell feature to set up a self-service kiosk. LightSpeed for iPad is a free download, but you'll need to run LightSpeed Server on your Mac with one user license per iPad client. A license starts at \$749 for a single user.—**PHILIP MICHAELS**

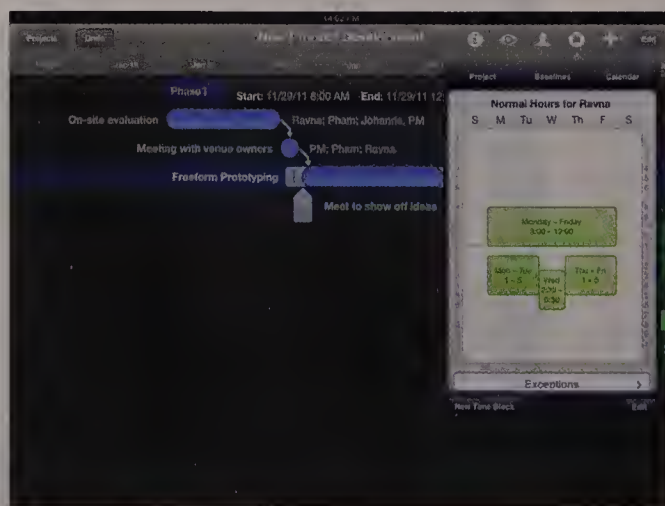


Project-Management Software Made Portable

Project managers who struggle to print out large, unwieldy Gantt charts to share at meetings will be glad that The Omni Group has announced an iPad version of its OmniPlan project-management software, set for release in the first half of 2012. OmniPlan for iPad (www.omnigroup.com) will closely mirror the features of the Mac OS X version, letting you tote all project data along with you. (See page 67 for more on OmniPlan for OS X.)

The iPad app will include screen mirroring via the Apple TV so that you can show charts on the conference room TV—no wires required. All changes you make to your project plan on the iPad will sync to the cloud so that you can easily move from one device to another. OmniPlan for iPad will also include change tracking so you know who changed what. The app will support CalDAV, WebDAV, Google, and the OmniSync server.

The iPad app won't offer printing, nor will it let you import from Microsoft Project,



the preeminent software on Windows for project management. To gain those features, you'll need to have the OS X version of OmniPlan as well. Pricing for the iOS app is not yet set, but The Omni Group said that it will likely be half the desktop software's price, along the lines of its other current iPad apps. OmniPlan 2.0.3 for the Mac costs \$200.—**SCHOLLE**

SAWYER MCFARLAND

FOR *Discerning* MACWORLD READERS



MACWORLD INSIDER



JOIN AND ENJOY:

- Magazine PDF issue archive
- Single-page stories
- Ad-free site experience
- Exclusive discounts, deals, content and more

\$19.95
12 MONTHS

CURRENT
MAGAZINE
SUBSCRIBERS
Print or digital edition (Zinio)

\$39.95
12 MONTHS NEW
MEMBERS

Add the magazine or digital edition when you sign up for Macworld Insider to take advantage of the package price.

LEARN MORE AND SUBSCRIBE TO MACWORLD INSIDER TODAY AT

macworld.com/insider

PLAYLIST

Everything You Need to Know about iPods, iTunes, and Mac-based Entertainment

Audiobooks.com Is Netflix for Books

A first look at the new all-you-can-listen-to monthly audiobook subscription service

BY KIRK MCELHEARN

If you're a fan of audiobooks, you're probably familiar with the many options available for listening to your favorite authors' works. You can download audiobooks from many services—including the iTunes Store and Audible.com—and buy books on CD. (An article I wrote last year discusses those different options [macworld.com/a/151753].)

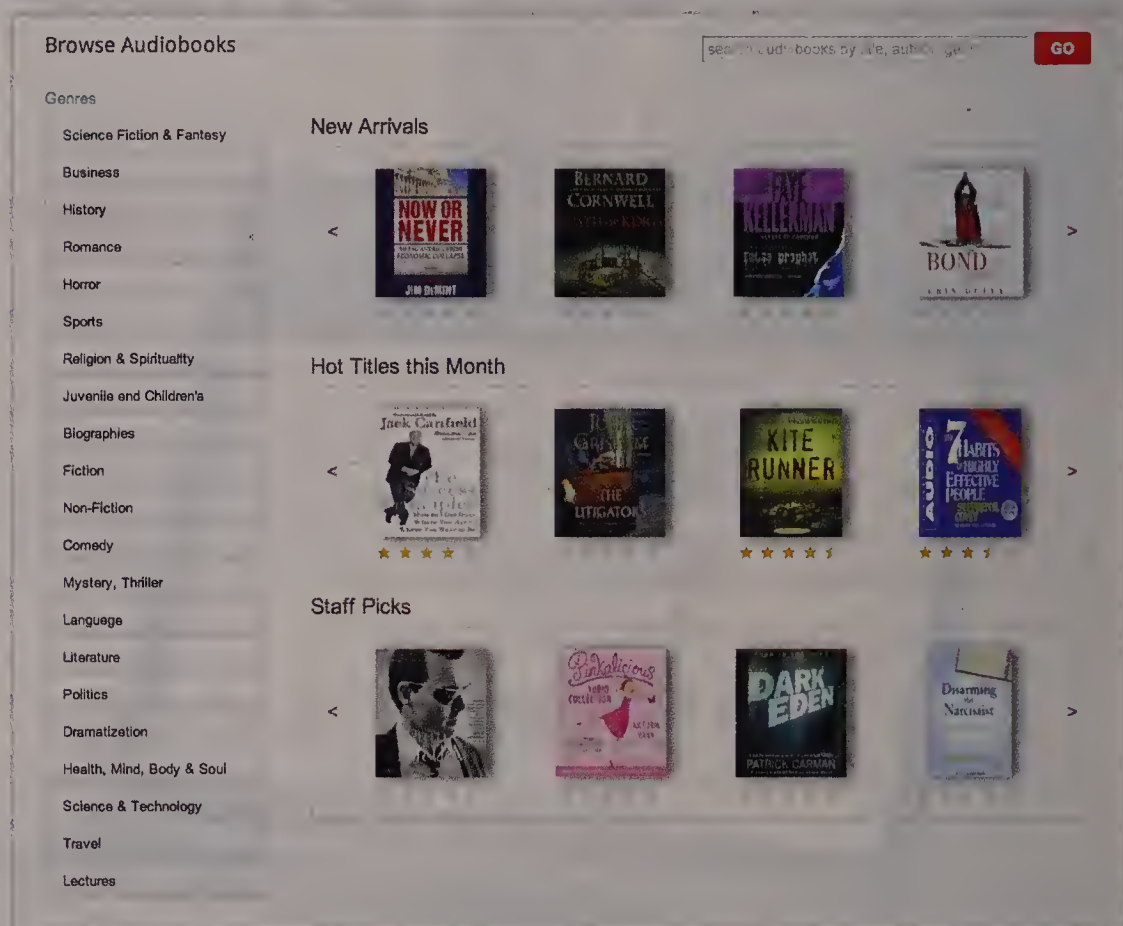
Whichever route you choose to take, the bill can add up quickly, as audiobooks are generally more expensive than their print equivalents. Even if you get a subscription with Audible.com, you're limited to a couple of books a month, and if you listen a lot, that might not be sufficient.

A new service called Audiobooks.com (nice work snagging that domain) aims to help the heavy-listening crowd—think of it as sort of a Netflix for audiobooks. For \$25 a month, you get unlimited access to its selection of audiobooks, and you listen to books by streaming them, rather than by downloading them and adding them to your iTunes library. In addition, since the service is Web-based, you can listen

For \$25 a month, you get unlimited access to Audiobooks.com's selection of audiobooks, streamed to your computer or mobile device.

to books on your computer, your iPhone, your iPad, or any other device that can access the Web.

(Audiobooks.com is actually a subsidiary of Simply Audiobooks, which offers a similar all-you-can-listen-to service for audiobook CD rentals [www.simplyaudiobooks.com].)



Books for You Browse the collection on Audiobooks.com before signing up.

Getting Around

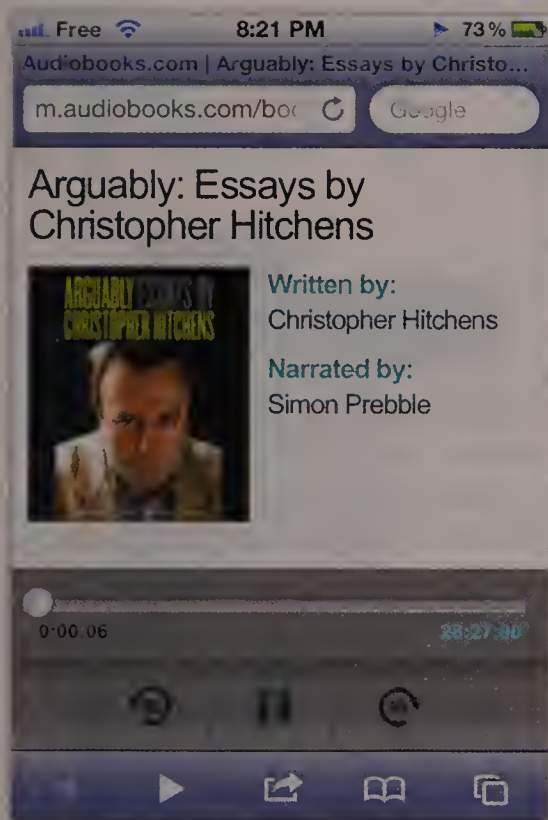
The Audiobooks.com website is easy to navigate, and all you need to do to start

listening to a book is click a button. A small window opens in your browser—or, if you're on a mobile device such as an iPhone, the book opens in a new tab or window—and you can start listening. You can pause, play, and adjust the audio volume, and even play your book in the background on a mobile device.

If you listen to part of a book on your Mac and then want to switch to, say, your iPhone, not to worry: The website stores your location so you can pick up where you left off. I found that this feature generally worked as advertised, though sometimes it was a few seconds off from the point where I actually stopped.

In addition, when you go to the site, you immediately see the latest book you've been listening to, along with any other books you haven't finished. If you want to remove one from the list, just click the X in the upper right corner of the book's graphic.

Unfortunately, there are no chapter markers, so you can't tell how much



Mobile Audiobooks The service lets you listen on an iPhone or another mobile device.

time is left in a chapter or skip ahead to the beginning of the next chapter (which is especially useful when you're listening to collections of essays or short stories, for example).

Streaming Only (for Now)

Although listening to audiobooks works well on iOS devices, a dedicated iOS app would be a plus. (The company is planning to release native iOS and Android apps later this year.) It's also important to note that because listening is a streaming affair, these books eat up a lot of bandwidth, so if you have a cap on your data plan—and you're not listening via Wi-Fi—you need to be careful. The website says that you should have at least 150MB of storage available for caching books, but it doesn't indicate how much space any given book takes up. (With a data rate of 64 kilobits per second, 150MB is about how much space a 5-hour book would use.)

Also, if you don't have network access, you can't listen—so when you go through an area of poor coverage while you're on the road, you'll lose access temporarily (as you also will on a plane, in a subway, or at any other place where you don't get a data signal and where

Wi-Fi isn't an option). The company promises the native apps will include some kind of offline mode.

The audio quality was fine—generally on a par with the sound quality of audiobooks from other sources.

Selection

The real test for a service like this is, of course, the selection. Audiobooks.com claims to have “more than 10,000 best sellers, top new releases, and classic favorites,” and if you browse the selection, you can see that certain genres are fairly well stocked while others are a bit sparse (audiobooks.com/browse). When I checked, there were 957 books in the Mystery, Thriller genre; 314 in Romance; and 714 in Science Fiction & Fantasy. These are all fairly low numbers compared with Audible.com, for example. Horror contains only 83 books, but Business has 772. Drilling down, there are only 11 books in European history, eight literary biographies (a category that oddly includes a biography of Einstein and Hemingway's memoir *A Moveable Feast*), and several Shakespeare plays. In other words, if you're a big consumer of audiobooks, you may not find much to listen to in the current selection.

There's much to be said for this type of service, where for a fixed monthly fee you get all you can listen to from its offerings. The cost is fair, given the price of audiobooks, but its worth depends on whether the library has enough to satisfy you. The site has just launched, so it's likely the selection will improve. In any case, there's no commitment, so even if you find only a few months' worth of books, you can cancel your subscription at any time. And if you're on the fence, you can sign up for a free seven-day trial to test the waters (audiobooks.com/signup).

So the idea is good, it works well, and the price is fair. All Audiobooks.com needs now is a lot more books.

Kirk McElhearn writes about more than just Macs on his blog *Kirkville* (www.mcelhearn.com). He is the author of *Take Control of iTunes 10: The FAQ*, second edition (TidBits Publishing, 2012).



Apple Unveils iTunes U App

BY ROMAN LOYOLA

During Apple's recent education event, company executives Eddy Cue and Jeff Robbin unveiled the iTunes U app, a new way for students and teachers to manage course material for classes on an iPad, iPhone, or iPod touch (for more about iTunes U, see macworld.com/7664).

While the iTunes U app provides access to the content that's available in the iTunes U section of the iTunes Store, it also offers a way for teachers and students to interact. The opening interface looks a lot like Apple's iBooks app, with a bookshelf hosting icons that represent your courses. Tap on a course to see a list of topics. Teachers can post a syllabus, notes, and assignments, and students receive notifications when new posts are available. With the assignment lists in the iTunes U app, students can mark an assignment as done.

“The all-new iTunes U app enables students anywhere to tap into entire courses from the world's most prestigious universities,” said Cue, Apple's senior vice president of Internet software and services, in a statement. “Never before have educators been able to offer their full courses in such an innovative way, allowing anyone who's interested in a particular topic to learn from anywhere in the world.”

The free iTunes U app is available in the iTunes Store. Apple offers step-by-step instructions on course creation, and instructors can upload materials (such as a syllabus and handouts) for hosting by Apple.

REVIEWS

Home Entertainment Hardware,
Software, and Accessories

HARDWARE

Logitech Mini Boombox ▴

Logitech's \$100 Mini Boombox is certainly tiny, as intended. Like the Jawbone Jambox, the Mini Boombox is a Bluetooth speaker designed to be supremely portable. Unlike the Jambox, Logitech's portable speaker emphasizes low price over audio quality. The Mini Boombox's audio is decent, and certainly better than the built-in speaker on your iOS device. But we heard frequent distortion at medium or louder volume levels, and bass presence is negligible. The unit simply can't pull off the shocking sound-quality-for-the-size surprise that devices such as the Jambox and the soundmatters foxL v2 Bluetooth showcase.

👍👍👍; \$100; Logitech; www.logitech.com

MEElectronics A151 Balanced Armature In-Ear Headphone ▸

For \$75, the MEElectronics A151 offers balanced-armature driver technology and the accurate sound that comes with it. Compared to many balanced-armature models, the A151 offers impressive bass response, but bass impact and dynamics fall short of dynamic-driver models (miniaturized versions of the cone drivers used in traditional loudspeakers) in this price range. However, the A151 doesn't sacrifice bass performance the way Etymotic Research's models do, and it doesn't emphasize bass and high frequencies the way some other competitors do.

👍👍👍; \$75; MEElectronics; www.meelec.com



SMK-Link PadDock 10 ▾

SMK-Link's \$100 PadDock 10 is a desktop iPad stand, charging dock, and speaker system that's available in two versions: the original PadDock 10 for the original iPad, and the PadDock 10v2 for the iPad 2. The PadDock rotates 360 degrees clockwise or counterclockwise, locking in 90-degree intervals, to let you quickly rotate your docked iPad into landscape or portrait orientation in either direction. The stand also offers 30 degrees of tilt adjustment, allowing you to angle your iPad up or down as desired. As a speaker system, the PadDock 10 employs two 40mm-by-55mm speakers, though because of their close proximity to each other, you won't notice much, if any, stereo separation. Audiophiles will want to look elsewhere.

👍👍👍½; \$100; SMK-Link; www.smklink.com



TiVo Premiere Elite ▴

In an era when most cable and satellite TV companies will rent you a fully functional high-definition digital video recorder for a few bucks a month, why would you spend \$500 for a TiVo Premiere Elite (which also records HD video), in addition to \$20 a month for the TiVo service? Answer: It's the only DVR with four tuners, meaning that it can simultaneously record up to four HD programs—and with 2TB of storage, it also provides plenty of room for all that content (up to 300 hours' worth of HD video). But while TiVo remains the Cadillac of the DVR category, its high price should give pause, especially given its ongoing inability to support cable providers' on-demand video services. And it works only with digital cable or Verizon's FiOS service—it doesn't support satellite services.

👍👍👍½; \$500; TiVo; www.tivo.com

iPods: Current Lineup

PRODUCT	SPECS	RATING	PRICE ^A	DISPLAY	PERFORMANCE	FIND CODE ^B
iPod Classic	160GB	👍👍👍	\$249	2.5-inch color	36 hours of music playback; 6 hours of video playback	5262
iPod Touch	8GB	👍👍👍½	\$199	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6553
	32GB	👍👍👍½	\$299	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6554
	64GB	👍👍👍½	\$399	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6555
iPod Nano	8GB	👍👍👍½	\$129	1.5-inch color	24 hours of music playback; 5 hours of video playback	6551
	16GB	👍👍👍½	\$149	1.5-inch color	24 hours of music playback; 5 hours of video playback	6552
iPod Shuffle	2GB	👍👍👍	\$49	none	15 hours of music playback	6550

^A All prices are Apple's prices. ^B In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

Macworld **HOT STUFF**

What We're Raving
about This Month



Gear4 Renew SleepClock

Unlike other sleep-tracking products out there (Jawbone's Up wristband, for one) Gear4's Renew SleepClock is unique in that it doesn't require that you wear a device on your body to monitor your sleep. The Renew SleepClock monitor and speaker dock can detect your sleep movements from your nightstand. For example, the sensor can tell if you're in a deep sleep by your lack of movement and slower breathing rates. And if you've woken up in the middle of the night and start fussing with the blankets, Renew SleepClock takes note. Using this information, it can wake you at the lightest moment in your sleep cycle. And all of that information gets stored on your iOS device, ready for you to review. Expect it to be available in Apple Stores in March for \$200 (www.renewsleepclock.com).—ALEXANDRA CHANG

SolarFocus Technology SolarKindle Lighted Cover

Kindle users who like to read a lot *and* who think green, rejoice! The \$80 SolarFocus Technology SolarKindle Lighted Cover is a protective cover for the latest Kindle, with a built-in LED reading light that turns on when you pop it out of its housing. But it's also a solar-powered charger that charges both your Kindle and an internal 1500 mAh battery, in that order. The cover also offers a Micro-USB port that lets you charge the Kindle and a reserve battery from a computer or Kindle adapter (www.solarmio.com).—JONATHAN SEFF



Griffin Technology Twenty

Griffin recently announced the Twenty, an amp that connects to nonpowered speakers and lets you stream AirPlay audio to them. Plug an AirPort Express base station into the Twenty, connect the Twenty to your speakers, and rock out. There's no word yet on when it'll be available or how much it'll cost (www.griffintechnology.com).—LEX FRIEDMAN

Roku Streaming Stick

Set-top boxes? Built-in software on your TV? That's so 2011. For 2012, media center manufacturer Roku is taking a different approach: The company is compressing its traditional set-top product into a thumbdrive-size Streaming Stick, to be available in the second half of 2012. Designed for TVs with the new MHL (Mobile High-Definition Link) port, the Streaming Stick offers Roku's full complement of software without the need for a bulky set-top box. Look for it bundled with Insignia's new HDTV line and as a stand-alone product (www.roku.com).—SERENITY CALDWELL



ZIK PARROT BY STARCK

As headphones go, the Zik Parrot by Starck is one of the most interesting products we've seen. It offers an active noise-canceling system for music and phone calls. You control basic functions using a touch panel covering the Zik's right earpiece, making it possible to swipe vertically to change the volume, for example. There's even what the company calls a "presence-sensor system" that puts the headphones into standby mode when you remove them from your head. The Zik can connect to audio sources via a standard headphone jack or Bluetooth (A2DP stereo), and it even supports Near Field Communication. Expect to see the Zik later this year (www.parrot.com).—ALEXANDRA CHANG



iBooks Author Fashions Multimedia Texts

Apple's app spices up textbooks with interactive diagrams and widgets

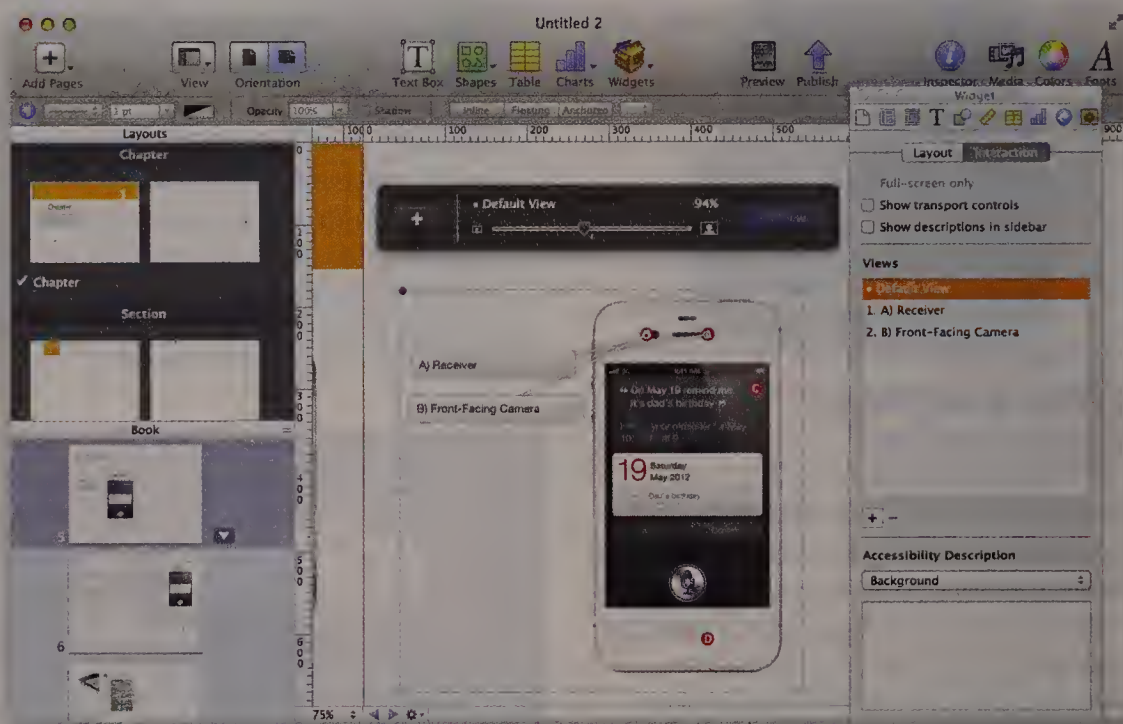
BY SERENITY CALDWELL

REVIEW

Anyone who's tried to create a multimedia-based ebook can tell you that it's not easy. While many popular applications offer export capabilities—which more or less corral text and images into an ePub document—proceeding from there is a challenge. Often, creators encounter troublesome CSS fragments, mismatched formats, and limited creative options within the apps.

Apple's new desktop app, iBooks Author, is designed to build beautifully crafted multimedia books solely for the company's iBookstore and iPad tablet. Conceived as a tool for creating Multi-Touch textbooks featuring visually stimulating elements such as photo galleries, video, interactive diagrams, and 3D objects, iBooks Author can be used to construct an ebook in any genre. There's no support for the iPhone, the iPod touch, or any other ebook platform.

The reason is basically structural. iBooks Author employs a new format called .ibooks, an amalgamation of the W3C's ePub standard and CSS, with some Apple-specific code mixed in. These books are far more complex than



Widget Heaven iBooks Author has a variety of widgets that users can insert to add interactive content to their projects.

iBooks Author offers an impressive range of tools for tweaking templates, many of them derived from its sister program, Pages.

a typical ePub volume, making them incompatible with any reader but iBooks.

You can also use iBooks Author to output your text as a PDF or as plain text, but these capabilities are designed as proofreading mechanisms rather than alternate formats. The updated iBooks

Author end-user license agreement (EULA) specifies that if you want to sell books using the .ibooks format created by the app, you must do so exclusively through Apple's iBookstore—though you can give away your books if you choose.

While these rules constrain the potential outlets for Apple's new

plates—Basic, Contemporary, Modern Type, Classic, Editorial, and Craft—are visible on launch, and each can be modified and saved as a new template.

By default, books are divided into chapters and sections (assuming a chapter has sections), just like a typical textbook. On the iPad, each chapter renders as a splash screen, with the chapter title at the top and individual pages displayed as scrollable thumbnails along the bottom. If a chapter is divided into sections, the section titles are listed in a sort of mini table of contents below the chapter title.

Aside from arranging the book's content, you can also alter its cover, include an optional introductory video, and add terms to a searchable glossary. The glossary is pretty neat—glossary terms can include text, shapes, images, tables, and

program, authors who want to build iPad-exclusive books will find an impressive tool in iBooks Author.

The Basics

Like its spiritual cousin, iWeb, iBooks Author is template driven. Six tem-

charts, and you can also link to related entries. Such a glossary would be an incredibly useful addition to a how-to manual or textbook.

While there's a reasonable amount of flexibility within the templates, I ran into a few layout problems. Certain inserts, such as sections or chapter titles, are uniformly styled throughout a book, so if, for example, you change the font or size of one title instance, all of them change—which is annoying.

Also, you can't edit certain template text, like the section breakdown for a chapter's TOC, except for its typeface and size. You can't change the format of the TOC entries (for instance, 3.1 *Section Name*). And you can't delete the mini-TOC—though you can send it to the background, which removes it from the splash screen.

Despite such quirks, iBooks Author offers an impressive range of tools for tweaking and manipulating templates, many of them taken from its sister program, Pages. You can break pages and columns, style text, add drop shadows to shapes, mask images, change background colors, and lots more. I was able to very quickly mock up a chapter of one of *Macworld's* superguides, using our PDF as guidance, and almost every design feature carried over. I was also able to import text and images from the superguide chapter using the app's Insert Chapter From Pages Or Word Document feature.

In addition, iBooks Author offers tools to help build your book for viewing in either portrait or landscape mode, though you can choose to constrain your text to just landscape (but not portrait).

Previewing is also easy if you have an iPad: Tether it to your computer via USB and click Publish, and iBooks Author sends a proof of the book to iBooks 2. I was disappointed that I couldn't do this wirelessly—with AirPlay, it shouldn't be difficult to implement such a feature.

Add Interactive Content

While iBooks Author could stand on the merits of its fixed-format layout and content, Apple didn't stop there: In addition to the chart and table options



Looks Like iWork The iBooks Author interface largely resembles that of the other iWork apps—unsurprising, considering that the iWork team helped create it.

carried over from iWork, the company has added seven interactive widgets that let you include special content in your ebook: Gallery for images, Media for movies, Review for interactive multiple-choice quizzes, Keynote for importing Keynote presentation animations, an interactive zoomable image with callouts, a 3D model, and a custom HTML snippet.

You can build some widget content in iBooks Author, along with an image or clip. For Keynote, 3D, or HTML options, however, you need an outside program. You build Keynote snippets in—what else?—Keynote; you make and export 3D models using a compatible 3D program; and you can create an HTML snippet with Dashcode (macworld.com/7663).

Unfortunately, Apple doesn't make this process particularly clear, and the help documents are limited: You can more or less figure out the in-app widgets, but when it comes to those that require imported files—especially Dashcode HTML—you're left to fend for yourself.

Another problem with interactive content is file size. The textbooks available on the iBookstore currently range in size from 960MB to a whopping 2.77GB, and your own iBooks can quickly spiral out of control in terms of size. Apple won't accept books larger than 2GB on the iBookstore. Unlike Pages, iBooks Author currently doesn't have any option to reduce file size or compress images—

the app attempts to do this automatically, and often not very successfully.

Publish and Export

Once you finish producing your book, you can either export it (as an ebook, a PDF, or a plain-text document) or prepare it for sale in the iBookstore. You can only open the ebook in iBooks 2 on an iPad; don't try to open it on an iPhone. If you plan to sell your book (or distribute it for free) on Apple's iBookstore, iBooks Author has a Publish tool to prepare and package your content for sale. Clicking the Publish button wraps your book in an iTunes Producer package; you can then edit it and prep it for publication within iTunes Producer. These processes are straightforward, but I dislike getting booted into Producer for publication.

Macworld's Buying Advice

If you plan to create a book solely for the iBookstore, and you're not concerned about other ebook platforms, iBooks Author stands above any other option, despite its quirks and hurdles. Those who rely on multiple platforms—or who object to Apple's EULA—may be wise to find a different and better alternative, or to hold off until updates have brought the program in line with their needs.

★★★★½; free; Apple; www.apple.com

Smart Tips for Sharing Photos Online

BY ALEXANDRA CHANG

While you can certainly email batches of photos to friends and family, that can be tedious and time-consuming. And posting family photos on Facebook for all 500 of your “friends” to see isn’t always the wisest course of action. Your photo-sharing needs depend on how private you want to keep your shots, whether you prefer a paid or free service, how you want to display your photos, and your preferred method of sharing—via the Web or an iOS device. Here are some tips.

Go Basic and Free

There are plenty of free photo-sharing sites available on the Web, but not all of them offer user-friendly features. While free sites won’t give you as many customizable features as paid services, or display photos in the most elegant manner, they’re great for basic sharing.

Flickr (flickr.com), perhaps the best-known service, offers a basic free account option for occasional shooters—users can upload a maximum of 300MB of photos each month (around 100 photos). You can organize photos into different albums and set specific privacy levels for individual photos and albums. You can also share private photos with people who do not have a Flickr account by mailing your recipients a special URL.

Another free option, Google’s photo-sharing service, Picasa (picasa.google.com), is convenient for people who already have a Google or Gmail account. Picasa Web Albums offer 1GB of storage, as well as an unlisted gallery URL, which you can email to friends and family. You can also upload a gallery and, within Picasa, choose specific contacts to share it with. Picasa sends an email notification to the recipients, along with a link to the album.

Create Large, Stunning Galleries

For a modest price, you can create beautiful online galleries with a host of



Keep Photos Private SmugMug is a versatile online photo-sharing app that lets you selectively share photos with the people you choose.

display, sharing, privacy, and protection features. SmugMug (www.smugmug.com) is one of the best options: The photo site lets you store, display, and share photos in an aesthetically pleasing manner. Accounts start at \$5 per month or \$40 per year and offer unlimited photo uploads, a choice of 50 themes, and various privacy and sharing options.

SmugMug caters to the über-social too—it’s easy to embed photo slideshows in blogs, share via social networking sites, and allow others to edit your photo galleries. For \$60 a year, users can also upload and share 20-minute videos.

SlickPic (www.slickpic.com) is similar to SmugMug, but costs a bit less. For \$25 a year, SlickPic offers unlimited photo storage for high-resolution images, enhanced privacy and security settings, preset and custom photo display themes, and more. One of the coolest features is its service for photo editing and enhancement: You can submit photos to SlickPic photographers, who then improve images according to your instructions. Users get between 50 and 550 photo edits per

month. SlickPic also offers a free account with fewer features.

Share Instantly from Your Phone

The free iOS app from PhotoRocket (macworld.com/7672) lets you create photo galleries from your iPhone’s Camera Roll images. Once you’ve chosen your shots, add a note and share them by selecting contacts or entering email addresses. A PhotoRocket account through the iOS app lets you edit your photo galleries on the company website.

Storie (www.storieapp.com), a free iOS app, lets you pull images from Facebook, Instagram, and your iPhone’s Camera Roll—or snap photos from within the app—to create flip-book-like photo galleries called Stories. The app lets you add filters and text captions to images. Stories can be kept private or made visible to the community.

Both apps make it easy to share photos on social networking sites like Facebook, Twitter, and Tumblr. The App Store offers similar photo-sharing apps, including the free Cooliris LiveShare (macworld.com/7670) and Linea (macworld.com/7671).

First Look: Final Cut Pro X 10.0.3 Restores Pro Features, Adds New Ones

BY GARY ADCOCK

The June 2011 release of Apple's Final Cut Pro X set off a shock wave that reverberated through video circles worldwide. When Apple released the new version of its flagship video software, it also immediately removed the previous version, Final Cut Pro 7, along with the Final Cut Server and Final Cut Express apps, from retail distribution. Reviews of FCP X were mostly scathing. Videographers who had built careers around Final Cut workflows found that the new version lacked essential pro-level power features, and many longtime users jumped ship.

Apple Reaches Out

With the FCP X 10.0.3 update, Apple has rectified many issues. For example, its demo of the new version employed an iMac attached via Thunderbolt to a Promise Pegasus RAID array and AJA Video Systems' Io XT video interface for playback on a professional broadcast monitor, which addressed my concerns. Apple says there are now more plug-ins available for FCP X than there are for FCP 7, with companies like GenArts and Red Giant supplying tools and effects for high-end moviemakers.

Convert FCP 7 Projects to FCP X

Another big deal is XML 1.1 integration with FCP via Intelligent Assistance, the company owned by video guru Philip Hodgetts. The 7toX for Final Cut Pro conversion app (\$10, macworld.com/7668) allows users to convert older FCP 7 project files into FCP X events.

Quantum Leap with Multicam

Users were promised from the introduction of FCP X that they would be able to edit a multicamera project, and Apple has delivered. With up to 64 active camera angles available, you can actively edit more cameras than you'd use for most



Up to 64 Camera Angles Multicam editing is now a reality in FCP X. Users can sync clips by camera time code, camera name, in and out points, markers, and using the source audio.

multicam projects. Since FCP X contains the most powerful metadata engine of any nonlinear editing system, users now have unprecedented control over multicam events, with the ability to access and sync tracks not only via time code, but also keywords, in and out points, markers, and audio tracks.

The multicam metadata functionality is intelligent enough to dynamically identify multiple takes from the same camera and drop them sequentially onto a multicam track—an amazing feat. Apple augmented FCP X's audio-syncing capacity by letting the app exploit audio metadata to sync multiple cameras with similar audio even when the audio files' time codes don't match.

In addition, FCP X allows you to add cameras that have different codecs, image rasters, and frame rates without converting the footage first. That means you can handle a multicam project that includes footage from DSLR, HDV, DV, and professional cameras without having to preprocess the content.

Hardware Beta and More

FCP X hardware support is officially still in beta, with support for current Blackmagic Design and AJA Video Systems PCIe video cards and Thunderbolt accessories. Matrox support should follow shortly. Along with the major upgrades to FCP X 10.0.3, other improvements include media relink, allowing the transporting of projects; advanced chroma keying; and the ability to import layered Photoshop files.

Bottom Line

While many improvements are still needed, especially for people who work in multiuser environments, Final Cut Pro X 10.0.3 indicates that Apple is listening to the concerns of the video community that put Final Cut Pro on the map.

Gary Adcock is a film and TV consultant based in Chicago. His columns appear on CreativeCow.net.

There is
something
worse than a
dropped call.



**INSURE YOUR
PHONE TODAY.**
as low as \$4/month

Also available for MacBooks, iPads,
and other Apple products.



**Insurance Solutions
for a Digital World**

www.WorthAveGroup.com
1-800-620-2885

CREATE

REVIEWS

Hardware, Software, and Accessories
for Your Creative Endeavors



HARDWARE

Arctic Accessories Architect Stylus ▸

Aluminum styluses are all the rage these days, with Arctic Accessories' Architect Stylus the latest in a long line of impeccably designed devices. The 4.8-inch stylus stands out in novel ways: It sports a 7mm rubber nib, rather than the 8mm or 6mm versions currently in favor, and that nib is recessed into the pen, rather than jutting outward. The body of the stylus also eschews a bulky clip, instead providing a lanyard ring. The Architect falls short in only one regard: ergonomics. While the stylus is comfortable enough to hold at first, your hand may cramp slightly after extended periods of use.

★★★★½; \$23; Arctic Accessories;
www.theartcticstore.com



Canon PowerShot S100 ▴

The Canon PowerShot S100 offers an all-encompassing range of manual options for experienced photographers, as well as easy-to-use automatic modes for casual shooters. Because it covers so many bases, it's a great option for those who want to use it as a learning tool, as well as for shutterbugs who simply want to point, shoot, and come away with outstanding images. Canon has built upon the foundation of last year's PowerShot S95 by making more than a

few meaningful changes. The S100 offers a wider-angle 5X optical zoom lens with a useful focal range of 24–120mm, a new 12-megapixel CMOS sensor, the company's new Digic 5 image processor, full HD 1080p video, GPS, and a small handgrip. Combined with the PowerShot S100's core attributes, those updates will keep this camera on the hot list for quite a while. However, it's certainly pricier than your average point-and-shoot camera.

★★★★½; \$430; Canon; www.canon.com



Nikon Coolpix P7100 ▴

With the Coolpix P7100 point-and-shoot camera, Nikon has retained the central assets of the previous P7100 model: a 7.1X optical zoom with a focal range of 28–200mm, a 10-megapixel CCD sensor, a DSLR-like array of buttons and dials for fine-tuning exposure settings, a solid (if somewhat chunky) body design, and a full complement of manual controls, plus semimanual and automatic shooting options. The P7100 also plays well with Nikon's on-camera and off-camera Speedlight flash units, but, disappointingly, it maxes out at an HD video resolution of 720p instead of the more common 1080p. The Coolpix P7100's feature set is excellent, as is its image quality. Considering its numerous attributes, this camera merits strong consideration from photographers who want control over their picture taking. Although there's room for performance improvement in shot-to-shot times and video resolution, the P7100 is a big step forward. But its complexity means that it presents a far

more difficult learning curve than that of most point-and-shoot models.

★★★★; \$500; Nikon; www.nikon.com



Olympus E-PM1 △

The baby of the Olympus Pen family of cameras, the 12-megapixel E-PM1, actually represents a new line of the company's interchangeable lens cameras. Also known as the Pen Mini, this \$500 entry-level model is the least expensive of the Pen cameras. While it is the smallest and lightest, and has the fewest external controls, the E-PM1 offers many of the same features as its more expensive siblings, including manual, semimanual, and automatic exposure modes. Essentially, this is a compact interchangeable-lens camera that works best for snapshooters who will stick with the most basic picture-taking functions, but it also has extensive features that appeal to experienced shooters. The camera also offers good performance and above-average image quality. However, the lack of external controls and the confusing interface may put off some users.

★★★★½; \$500; Olympus; www.olympus.com



SOFTWARE

Disposable Hipstamatic △

Leave it to Synthetic, the folks behind Hipstamatic, to make the disposable camera cool again. Disposable Hipstamatic incorporates Hipstamatic's popular lo-fi filters into the functionality of a disposable

camera to create a fun photo app that emphasizes sharing the photographic process with your friends. Think of Disposable Hipstamatic as a simpler, more shareable, but equally lo-fi version of the original Hipstamatic. Here's how it works: The app offers two free cameras with 24 shots each. You invite friends to share a camera with you via Facebook (this earns you a third free camera), and then you start snapping. This app is really meant for sharing with friends, and the interface emphasizes this point throughout. In keeping with the disposable camera idea, you and your friends can't "develop" and view each other's photos until you finish the "roll." The simplicity and highly social nature of Disposable Hipstamatic may not appeal to everyone, especially if you're used to the control and flexibility afforded by the original Hipstamatic. But if you want a fun way to share lo-fi photos with friends, Disposable Hipstamatic won't disappoint you.

★★★★½; free; Synthetic;
disposable.hipstamatic.com



Pixelmator 2.0 △

Challengers to Adobe's photo-editing software are few and far between, and many who step into the ring with the behemoth are knocked out in the first round. With Pixelmator 2.0, Pixelmator Team shows that it has a lot of fight in it. One of the first things you notice about Pixelmator is that the interface is incredibly clean and fluid. Palettes are streamlined, subdued, and black, and do not distract from the canvas. Navigation is smooth and slick, and some actions show additional detail as they're performed. Examples of these small but significant extras are that you'll see the current angle displayed next to the cursor when you draw out a gradient; and when you choose undo or redo, a subtle pop-up window in

HOW CAN WE CRAM 10 AWESOME APPS INTO YOUR MAC
FOR ONLY \$49.99

mupromo.com/mw

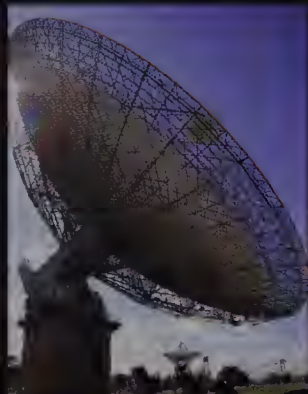
m
MacUpdate

MacMania™15

Australian Eclipse
November 7–21, 2012



InSightCruises.com/Mac-15

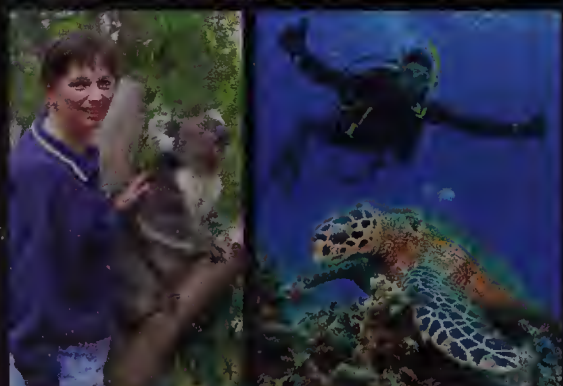


Parkes Observatory

For a full listing of seminars visit
InSightCruises.com/Mac15-seminars

Speakers include:

• Sal Soghoian • Allison Sheridan
• Don McAllister • Leo Laporte • Jason Snell



CO-PRODUCED BY:

Macworld

InSight Cruises
THE JOURNEY WITHIN

CSH 2065380-40

CREATE

Top Products YOUR GUIDE TO THE BEST HARDWARE WE'VE TESTED



CAMCORDERS High Definition

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
HMX-Q10UN www.samsung.com	★★★★	\$249	Full HD	7617
Vixia HF M40 (pictured) www.canon.com	★★★★½	\$450	Full HD	7477



DIGITAL CAMERAS Point-and-Shoot

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Coolpix S9100 (pictured) www.nikon.com	★★★★	\$199	12-megapixel	7300
PowerShot S95 www.canon.com	★★★★	\$340	10-megapixel	6804



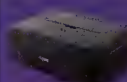
DIGITAL CAMERAS SLR

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Alpha SLT-A55 www.sonystyle.com	★★★★½	\$570	16.2-megapixel	6780
D7000 www.nikon.com	★★★★½	\$1200	18-megapixel	7618
EOS Rebel T3i (pictured) www.canon.com	★★★★½	\$550	18-megapixel	7190



DVD BURNERS Desktop and Portable

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
d2 DVD±RW w/LightScribe www.lacie.com	★★★★	\$90	desktop	3900
MediaStation 8X External Blu-ray Writer (pictured) www.buffalotech.com	★★★★	\$180	Blu-ray	5344



PRINTERS Inkjet

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Pixma iP4920 (pictured) www.canon.com	★★★★½	\$85	snapshot, photo	7478
Stylus Photo R2000 www.epson.com	★★★★½	\$500	photo	7584

^A All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. ^B In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

the middle of your canvas tells you what action has occurred. The only disappointment is that palettes do not snap (or dock) to each other. Pixelmator 2.0 provides an incredibly rare combination of ease of use, powerful features, and a low

price. It doesn't offer the complete feature set of its more robust competitor, but the features it does provide rival those you'll find in Adobe Photoshop. ★★★★★; \$30; Pixelmator Team; www.pixelmator.com

Macworld SUPERGUIDES

Macworld SUPERGUIDES

iPad 2 SUPERGUIDE

Master your Apple hardware and software with these in-depth guides from *Macworld* editors.

Macworld SUPERGUIDES

Total Lion SUPERGUIDE

Download free samples of our 15 titles now.

Macworld SUPERGUIDES

iPhone 4S SUPERGUIDE



Everything You Need to Know about
the iPhone and iPod Touch



macworld.com/superguide

HELP DESK

Answering Your Questions and Sharing Your Tips about Getting the Most from Your Mac

Mac OS X Hints

The insider tips you won't get from Apple

BY LEX FRIEDMAN

Select Text in Quick Look

Quick Look is a delightfully simple way to browse the contents of the files on your Mac without launching their parent apps. (Select a file and press the spacebar—that's it.) But if you're looking at, say, a PDF or Word document, Quick Look can be frustrating, because it doesn't provide any way to select and copy text; if you find a snippet of text you'd like to copy and paste, you still need to launch the parent app—unless, that is, you know the secret to making text selectable in Quick Look previews.

To make that happen, you just need to enable a hidden Finder setting. Open Terminal (in /Applications/Utilities), and then type the following code at the prompt and press Return:

```
defaults write com.apple.finder QLEnableTextSelection -bool TRUE; killall Finder
```

After a second or two, the Finder restarts. Once it does, you can select text in Quick Look previews and copy it to the clipboard for use elsewhere.

If you decide that you don't need to select text in Quick Look, you can

Select text in Quick Look

Quick Look is a delightfully simple way to browse the contents of the files on your Mac without launching their parent apps. (Select a file, press the space bar, that's it.) But if you're looking at, say, a PDF or Word document, Quick Look can frustrate, because it doesn't provide any way to select and copy text; if you find a snippet of text you'd like to copy and paste, you still need to launch the parent app. Unless, that is, you know the secret to making text selectable in Quick Look previews

To make that happen, you just need to enable a hidden Finder setting. Open Terminal (/Applications/Utilities), then type in the following code at the prompt and press Return:

```
defaults write com.apple.finder QLEnableTextSelection -bool TRUE; killall Finder
```

After a second or two, the Finder will restart. Once it does, you'll be able to select text in Quick Look previews and copy it to the Clipboard for use elsewhere.

If you decide you don't deserve to select text in Quick Look, you can turn this feature off with another Terminal command:

```
defaults delete com.apple.finder QLEnableTextSelection; killall Finder
```

Clean out Launchpad

Quick Look Selection With a few lines of code in Terminal, you can make it possible to select text when you're in a Quick Look preview.

switch this feature off using the following Terminal command:

```
defaults delete com.apple.finder QLEnableTextSelection; killall Finder
```

Clean Out Launchpad

Lion's Launchpad utility re-creates the iOS home screen on your Mac. Some users love this new feature; others aren't entirely sold on it.

If you're among the latter group, you can choose to ignore Launchpad pretty easily: Simply remove its icon from your Dock and turn off the Launchpad gesture, and you'll be able to live more or less free of Launchpad from then on. But what do you do if you want to get a fresh start with Launchpad by configuring it to give you quick access to just those apps you select?

You could manually remove entries from Launchpad while it's on screen by holding down the Option key and clicking on the jiggling apps. But that won't work on stock Apple apps, which seem to be permanently affixed to

Have a Hint to Share?

Navigate to MacOSXHints.com to submit it. This column was based on tips from Keir Thomas and anonymous contributors. Each month, the author of our favorite reader-supplied tip is eligible to receive a *Help Desk* mug.



Local Snapshots You can save Time Machine snapshots on a desktop Mac.

MUG PHOTOGRAPH BY PETER BELANGER

Launchpad's surface. And it's a laborious process if you have a lot of apps. But there's a way to empty Launchpad completely—removing even Apple's own apps. The crux of this trick is wiping out the contents of the database Lion uses to know what goes where in Launchpad.

To do so, launch Terminal and, at the command line, type the sequence of commands that appear in "Empty Launchpad." Then open Launchpad again. It'll be as blank as the faces of those guys in Apple's 1984 commercial. Of course, if you purchase an app from the Mac App Store, its icon will show up in your newly naked Launchpad.

Getting the apps you want back into Launchpad is simple: You can just drag the apps you'd like to add directly onto Launchpad's Dock icon. (Merely dragging icons onto the Launchpad icon in the Finder won't work; you must drag them onto the Dock icon.)

Miss the old overstuffed Launchpad? You can get it back by forcing Lion to rebuild your Launchpad database with this Terminal command:

```
rm ~/Library/Application\ Support/Dock/*.db; killall Dock
```

Enable Time Machine Snapshots on Desktop Macs

With Lion, Apple introduced local Time Machine *snapshots*. This feature lets your Mac use free space on your main drive to create iterative backups of your files when you're away from your external Time Machine disk.

By default, Apple disables local snapshots on desktop Macs; the assumption is that you only need them when you're using a laptop, and that your trusty desktop machine is always

EMPTY LAUNCHPAD

```
sqlite3 ~/Library/Application\ Support/Dock/*.db "DELETE from apps; DELETE from groups WHERE title<>"; DELETE from items WHERE rowid>2;"; Killall Dock
```

Note: There should be no line breaks in this code; there is a space after the last word on each line.

connected to a Time Machine drive. But what if that's not always the case? Perhaps you disconnect your Time Machine drive to connect other USB peripherals, or maybe you share the drive with other family members in your home. In any case, there's a way to enable local Time Machine snapshots on desktop Macs.

Launch Terminal and type **sudo tmutil enablelocal**. After you press Return, Terminal will prompt you for your account's password. Provide it and press Return again.

Your Mac should create a new snapshot within an hour, but you can hurry things along with another Terminal command: **tmutil snapshot**.

There's no visual indication that Time Machine is doing anything, but you can visually confirm that your system is taking local snapshots by entering Time Machine (from the Time Machine menu or the Applications folder). Your usual backups stored on an external drive appear as purple bars in the timeline display; local backups are shown in gray.

If you decide you want to turn off local backups on your desktop or laptop Mac and remove them, just use the **sudo tmutil disablelocal** command. It may take some time for your Mac to delete the local backup data, but it will eventually do so.

Photo Booth Power Tricks

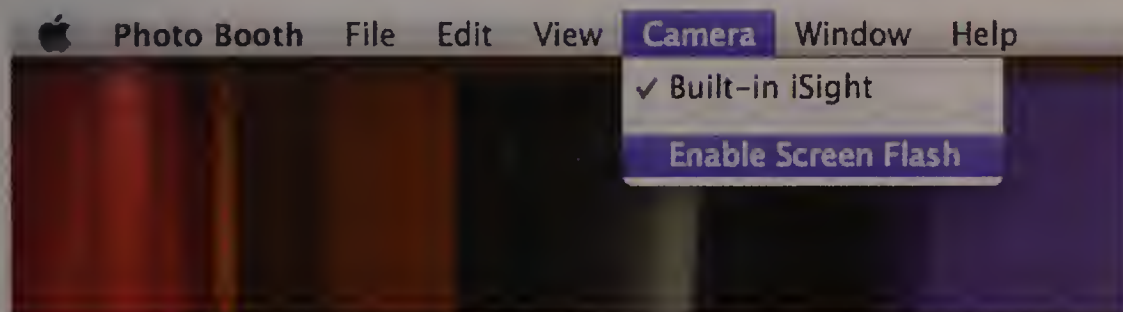
You may have forgotten about Photo Booth, but Apple sure hasn't. In Lion, Apple updated its software for quickly capturing photos from your Mac's built-in camera, adding full-screen mode and new visual effects that leverage face-detection features. While Photo Booth's feature set is still pretty simple, the software offers a few power user tricks that may help you get more out of it.

First of all, there's the flash. When you snap a photo with Photo Booth, the software briefly turns your Mac's display bright white to simulate camera flash. There's a new option in Lion to disable that flash permanently: Go to the Camera menu and deselect Enable Screen Flash.

Even before Lion's release, you could disable that flash on a photo-by-photo basis, and that trick still works: Simply hold down the Shift key as you snap your photo. If the room is well lit, disabling the screen flash may help you avoid the bluish tint that sometimes appears in photos taken with the flash.

Normally, Photo Booth employs a three-second countdown before it takes your picture. Hold down the Option key when you click on the shutter button, however, and Photo Booth takes your photo instantly. If you don't hold down Option, and the three-second timer starts counting, you can cancel your photo by pressing the Escape key before the shutter snaps.

Even better, these keyboard shortcuts can work in tandem with ⌘-T, the shortcut for taking a photo. That is, ⌘-Option-T takes a picture without the countdown; ⌘-Shift-T takes your photo and disables the screen flash; and ⌘-Shift-Option-T takes your photo instantly without the flash.



Flash-Free Photo Booth If you don't want your Mac's screen to flash brightly when you take a shot in Photo Booth, there's a setting for that.

Mac 911

Solutions to your most vexing Mac problems

BY CHRISTOPHER BREEN

Sync iCloud with Windows Outlook

Q: My son-in-law has a PC and uses Outlook for Windows. He now has both an iPad and an iPhone and wants to sync the calendars on the two Apple devices with Outlook on the PC. Can that be done?

H. Thomas Staton

A: It can, with the help of Apple's iCloud control panel for Windows (support.apple.com/kb/DL1455). While running Windows Vista SP2 or Windows 7 or later, install this control panel on the Windows PC and access it via this path: Start Menu ► Control Panels ► iCloud. You'll see options to sync mail, contacts, calendars and tasks, bookmarks, and Photo Stream (see "Windows into the Cloud"). You sync mail, contacts, calendars, and tasks with Outlook (Outlook 2007 or later required). You can sync bookmarks with Safari (5.1.1 or later) or Internet Explorer (version 8 or later).

Launch the control panel and enter your Apple ID and password, and then click Sign In. Select the items you want to sync with iCloud, and then choose whether to sync all items of a particular type (all events and contacts, for example) or just a selection of these items. The data is then synced with iCloud. Any content synced currently with iCloud is added to Outlook. And existing Outlook data is also added to iCloud.

Look under the My Calendars heading and you'll see entries for all of your iCloud calendars. Near the top of the



Windows into the Cloud With the help of the iCloud control panel, Windows users can sync their Outlook data with iCloud.

Outlook window is a new Refresh iCloud button, which does exactly that when you click on it.

Easy Disk Utility Encryption

Q: I want to quickly encrypt one folder at the end of the day. Using Disk Utility is too much trouble, and it doesn't securely delete the original folder. Surely there is a short AppleScript or application out there that encrypts a folder and securely deletes the original folder.

Bob Ross

A: There are third-party utilities such as AgileBits' \$35 Knox (agilebits.com) and Tao Effect's \$35 Espionage 2 (www.taoeffect.com) that can encrypt small bits of data like this for you, but I'd like to take a moment to revisit Disk Utility, as it really isn't terribly difficult to achieve your goal using this Mac OS X

utility, nor do you need to end up with an unsecured folder. Try this:

Launch Disk Utility and choose File ► New ► Blank Disk Image. In the New Blank Image window that appears, name your image, choose a size for it (something roomy enough to accommodate all the files you're likely to move to it), select 128- or 256-bit encryption from the Encryption pop-up menu, and select Sparse Disk Image from the Image Format pop-up menu. I suggest choosing that option because it ensures that your disk image takes up only the space required for the sum of the files within it. So, even if you've created a 2.5GB image, if you've only flung a single 300MB file into it, that's the size your image will be. (It can hold up to 2.5GB, but it won't stretch beyond that storage boundary.)

When you click Create, you're prompted to enter and confirm a password for the



Have a Problem?

Go to the Mac 911 forum (macworld.com/2467) to ask about your misbehaving Macs and applications.

image. Do *not* enable the Remember Password In My Keychain option. (If you do, anyone sitting down at your computer can mount the image.) Click OK, and the image file appears where you've saved it, and its mounted disk image appears on the desktop. Now double-click the mounted disk image to open it, create a folder in it, and drag files to this folder to save them. At the end of the day, drag the mounted image to the Trash and you're good to go; the original encrypted image file remains on your Mac, but you must double-click it and enter the password to mount its disk image and reveal the files and folders within.

If you're concerned that you may forget to eject the mounted disk image, Automator can help out. Just create a new Automator workflow that uses an iCal alarm. Add two actions to it—Get Specified Finder Items and Eject Disk. Drag your mounted disk image to the first action. When you save the workflow, iCal launches, and you see your workflow as an event in the Automator calendar. Configure the event to repeat every day at the time when you want to eject the image—at 7 p.m., for instance.

Reset an Administrator Password

Q■ My family's MacBook Pro appears to have a new administrator password—it's not the one I originally created. In previous operating-system versions, I could insert the installation disc and strip out the password entirely. But Lion doesn't have an installation disc. Is there some way out of this mess?

Lee Benjamin

A■ Restart your MacBook Pro while holding down the Option key, and choose Recovery HD in the startup screen. From the Utilities menu in the Mac OS X Utilities screen that appears, choose Terminal. In the Terminal window, enter **resetpassword** and press Return. Select your startup volume in the top of the resulting window and then, from the pop-up menu below, select a user account—'Lee,' for example.

Bugs & Fixes BY TED LANDAU



Solve Mac App Store

Download Errors

An error that has cropped up for numerous users of the Mac App Store states: "The product distribution file could not be verified. It may be damaged or was not signed." When this error appears, the download of the purchased application fails.

A potential solution is to delete the App Store application itself from the Applications folder and reinstall it. To reinstall when using Snow Leopard, download and run a combo update (such as Mac OS X 10.6.8 Update Combo). If you're running Lion, reinstalling OS X via Lion's Recovery HD partition should work similarly. I assume that running the OS X Update 10.7.2 Client Combo would also do the trick.

For those users willing to take a more techie route to a solution, you can avoid a time-consuming reinstall. A problem with the purchased app's folder appears to precipitate the App Store symptom. Use the Console utility to identify the failing folder, located in /var/folders. The name of the corrupt folder varies (it appears with a moniker such as 3p or q1), but the Console log will cite it. Once you've identified the folder, delete it; the symptom should disappear. The Mac will create a new folder as needed. This works whether you're running Snow Leopard or Lion.



Address a File-Sharing

Error

Recently, I tried to connect my Mac Pro to my MacBook Air via Lion's file-sharing capabilities. I clicked the Mac Pro listing in the Shared section of a Finder window sidebar on my MacBook Air; I

next clicked the Connect As button and logged in with my name and password. I then received an error that read, "There was a problem connecting to the server *nameofserver*. This file server will not allow any additional users to log on. Try to connect again later."

This message was odd for many reasons: There were no other users connected to the Mac Pro; I could still connect to the Mac Pro via screen sharing; I'd never had this problem before; and I could connect to my MacBook Air from the Mac Pro—it was going in the reverse direction that did not work.

None of the quick-and-dirty remedies I tried, such as restarting the Mac Pro, had any effect. But I discovered two solutions. The first is to launch System Preferences on the Mac Pro and go to the File Sharing section of the Sharing preference pane. There, click the Options button and reverse the selected option—uncheck the AFP option and select the SMB (Windows) choice instead.

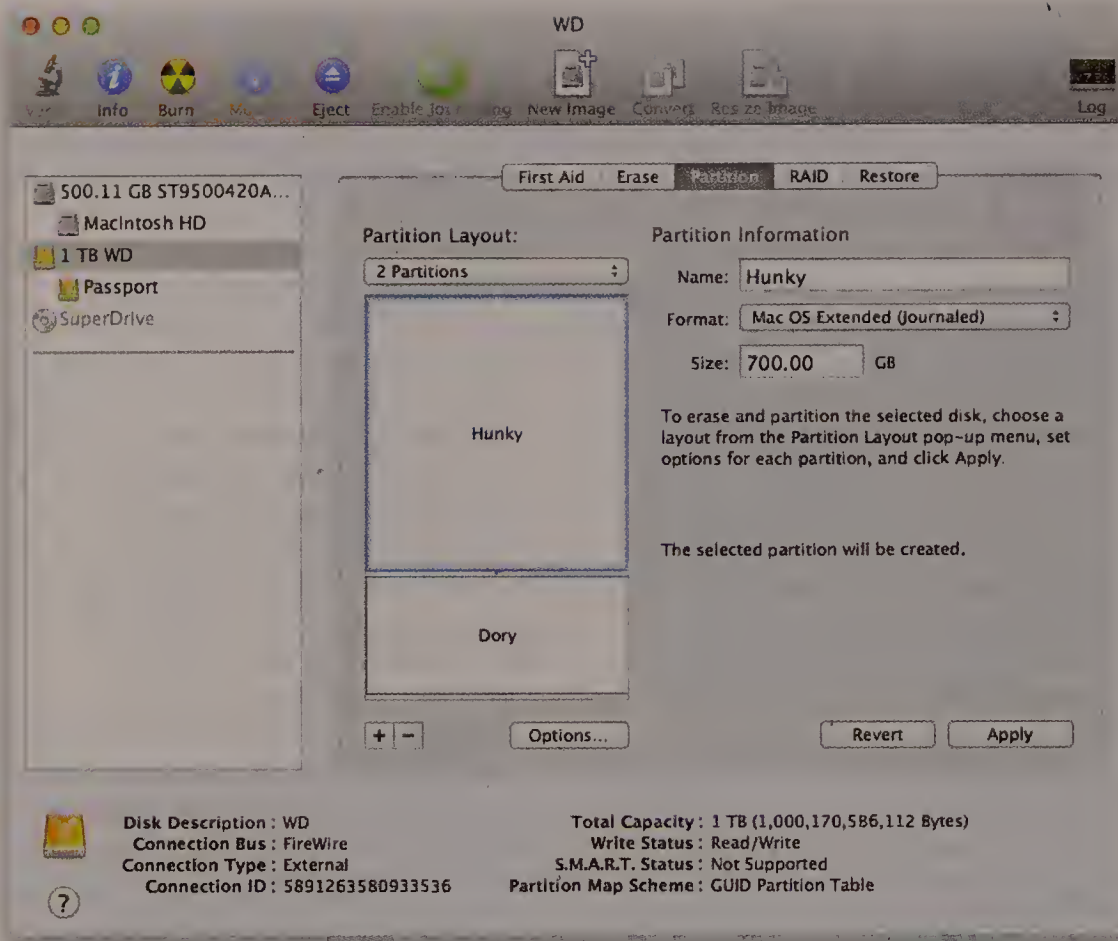
The other solution (which I prefer because it addresses the root cause of the problem) is to navigate to Library/Preferences and open the com.apple.AppleFileServer.plist file with a text editor. Locate the maxConnections and maxGuests properties. If the maximum number for both is zero (0), that's the problem. You should change these numbers to ten (10) and save the file.

Senior Contributor **Ted Landau** is the founder of MacFixIt (www.macfixit.com). Share your problems at bugs@macworld.com or on Macworld.com's Mac 911 forum.

In the fields below, enter and confirm your new password. Click Save and choose Restart from the Apple menu, and your Mac does exactly that, using the new password you've created.

Note that any items saved to your Mac's keychain with the old password remain tied to that old password—you can't unlock the keychain with the new

password. This means that every so often your Mac will prompt you for a password it formerly didn't require because it had saved that password in your old keychain—a website password, for example. Enter your new password when prompted, and the Mac will save it to the keychain that's associated with your new password.



Partition a Hard Drive that Contains Data

Q: I have a 1TB FireWire hard drive that is about a quarter full. Is there a way to safely partition it with my data on it?

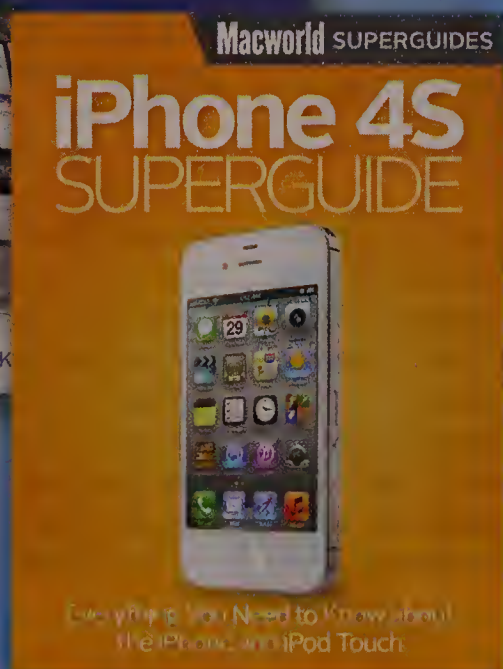
Kevin Riley

A: The technique I'm about to describe has worked for me. However, you should always have a current backup of your data. When you've backed up this drive to your satisfaction, follow along.

Mount your hard drive and launch Disk Utility. In the list of drives in the left pane, select the hard drive you want to partition (not the volume on the drive, but the drive itself). Click on the Partition tab that appears when you select the drive.

The Partition Layout area shows a graphic representation of your hard drive—initially it's a single partition, partly outlined in blue (the blue

We've Got a Live One Use Disk Utility to create additional disk partitions.



Macworld SUPERGUIDES

macworld.com/superguide

Master your Apple hardware and software with these in-depth guides from *Macworld* editors. Download free samples of our 15 titles now.



indicates the portion of the drive that contains data, but not its location on the drive). Your first step is to resize this partition. You can do that by dragging up on the bottom right corner of this image (where you see three gray lines), or you can simply enter a new value in the Size field (700GB, for example).

Now click the plus-sign button (+) below the partition to add another partition. By default it occupies the remaining space on the drive (see "We've Got a Live One"). You can add more partitions if you like by clicking the plus-sign button again. To change their size, use the Size field.

When you're ready to partition the drive, click the Apply button. (If you change your mind, click Revert to put things back the way they were.) Disk Utility goes about its business, making sure that your data remains on the first partition, as well as creating the additional partition.

MAC 101

About Routers, Hubs, and Switches

Q: My network router is downstairs in my home and I have an Internet-ready TV upstairs. Can I put an ethernet hub in the upstairs room to handle both the TV and computer, and connect that hub to one of the ports on the router?

Via the Internet

A: Sure. The router is the brains of the outfit and handles all the routing, assigning internal IP addresses to those devices that request them. To proceed, string an ethernet cable between the router and the hub, configure the router to distribute IP addresses via DHCP, plug whatever you like into your hub, and tell your devices to pull their addresses from the router (you generally do this via each device's network setting)—the router takes care of the rest.

While a hub can do the job, it's not the best device to use, as hubs are almost entirely stupid. Any data that comes into the hub is distributed to all the ports on the hub and the devices attached to them—a TV, network music player, and set-top box—whether those devices can use that data or not. An ethernet switch is more discerning than a hub. It knows which port a particular device is attached to—so, for example, it understands that your TV occupies port 2—and sends data for that device only to the correct port. The end result is that a switch directs traffic more efficiently than a hub. Given this, and the fact that switches are far less expensive than they used to be, I'd purchase a switch rather than a hub.



OPTIONAL
ALUMINUM
BASE
SHOWN

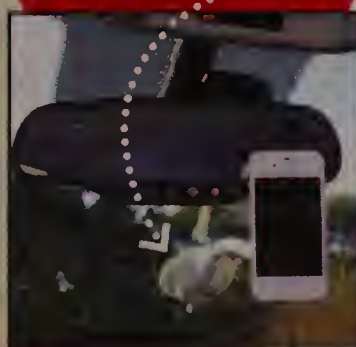
AppleMount.com

NO brackets or clips.

Mounts in seconds & removes in one!

- Our tablet mount is built around the most technologically advanced vacuum mount on the planet. These mounts are surprisingly powerful and have a history of use in critical applications like holding dive tanks secure on boats, attaching bike racks to cars, and even assisting our military.
- Our heavy duty flex-arm allows you to bend and turn your tablet to get your screen into the perfect position.
- The vacuum mount has a built-in finger pump. Pump it until the orange band disappears, and if it loses any vacuum, the orange band will reappear to let you know that it's time to re-pump it.

**Check
out our new
mini cups!
Great for phones or
small e-readers.**



REAR VIEW



**15%
Discount Code:
'BRACKETLESS'**



PATENT PENDING

Let Your iPad Run Naked!



MORE MEMORY = FASTER MAC!

iMac® up to 32GB | MacBook® Pro, MacBook and Mac® mini up to 16GB

MOST POPULAR UPGRADE KITS | For all memory options visit www.macsales.com/memory

SAVE
over
82%
vs factory!

4GB
SETS FROM
\$25.79

8GB
SETS FROM
\$45.99

#1
SELLER

16GB
SETS FROM
\$89.99

32GB
SETS FOR
\$479.99



All OWC memory meets or exceeds manufacturer specifications for maximum quality assurance, but at the independent prices you can afford. Plus, you receive the industry-leading Lifetime Advance Replacement Warranty and award-winning US-based customer support.



Now offering memory kits up to 128GB* for Mac Pro!

Top Quality, Lifetime Warranty, Premium Certified for Mac Pro from OWC®

MOST POPULAR UPGRADE KITS

8GB
SETS FROM
\$62.99

16GB
SETS FROM
\$124.99

32GB
SETS FROM
\$243.99

64GB
SETS FROM
\$819.99

Get the right memory for your Mac Pro: www.macsales.com/promemory

*Current Mac OS X versions are unable to utilize more than 96GB RAM due to a operating system limitation. 128GB can be fully utilized by a 2009-2010 Mac Pro if running Bootcamp with 64-bit versions of Windows XP and later as well as with 64-bit versions of Linux.

Newer Technology® Power2U™
www.macsales.com/power2u



Dual socket wall outlet with two integrated USB ports for powering and/or fully charging Apple® iOS Devices and other USB equipped mobile devices.

from **\$27.99**

SAVE \$5 when your buy 2 or more \$22.99 each



SAVE BIG ON OFFICE FOR MAC

www.macsales.com/officemac

Microsoft Office 2011 for Mac
Now on special from **\$79.99**

Office 2008 for Mac also available

Your source for industry trusted Mac upgrades, hardware and software.



matias



NEC

HITACHI



Microsoft



elgato

Kensington



TOSHIBA

ALESIS



SanDisk



Other World Computing

Quality products. Expert support. Since 1988.

800-275-4576 | www.macsales.com

WE BUILD OUR SSDs FOR MACS

Up to
276% faster
Sustained data rates
versus other 6G SSD
Crucial C300 6G SSD

Up to
92x faster
4K random data rates
versus factory hard drive

- Industry's only full firmware update support for Macs
- Industry's LONGEST warranty—up to five years
- Free LIFETIME US-based support—24/7 Live Chat
- Risk free 30-day MONEY BACK guarantee
- Industry's HIGHEST performance (verified by leading benchmark media)

OWC Mercury 6G SSDs up to 480GB from **\$119.00**



OWC Mercury Aura® Pro Express SSDs
120GB – 480GB from **\$259.99**

First and only SSD upgrade for the MacBook Air®

OWC has the right SSDs for today's Mac and Macs from the last decade! 30GB–480GB **from \$61.99**



YOUR ULTIMATE UPGRADE AWAITS AT WWW.MACSALES.COM/SSD

Reuse Old Hard Drives
Newer Technology Voyager™
www.macsales.com/voyager

Data access made simple!
Plug and Play, hot swap and add a new drive at any
time. Offers flash memory card-like ease of use, but
with huge capacity gains.

Voyager SATA drive docking
solutions support all 2.5" and
3.5" SATA 6Gb/s, 3Gb/s and
1.5Gb/s drives up to 4TB.

from **\$33.00**

**DRIVE
SHORTAGE
SOLUTION**



Newer Technology
USB 3.0 Universal Drive Adapter
www.macsales.com/uda

The "Swiss Army Knife" of Disk Connectivity
Give a second life to switched-out drives—
instant USB connectivity turns any bare drive
into an external storage solution.

only **\$29.99**

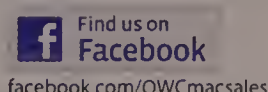


Newer Technology NuPower®
Replacement Laptop Batteries

NuPower replacement batteries are available for most Apple
laptops—even unibody models! Get up to 87% higher
battery capacity than Apple factory included batteries.

from **\$59.99**

See our full line of NuPower laptop batteries at
www.macsales.com/laptopbattery



Advertisers Index

Interact with the companies whose products and services are advertised in Macworld.

ADVERTISER	INTERACT	PAGE NO.
1&1 Internet	1and1.com	53
3 Cats and a Mouse	3caam.com	93
A		
American Power Conversion	apc.com	25
B		
Blackmagic Design	blackmagic-design.com	31
Booq	booqbags.com	10
C		
Cablejive	cablejive.com	91
Carbonite	carbonite.com	41
Creative Juices	bigposters.com	93
D		
Digital River Education	academicsuperstore.com/mwap	92
DriveSavers Data Recovery	drivesavers.com	93
E		
E3 Expo	e3expo.com	51
EARBUDi	earbudi.com	93
ESS Data Recovery	datarecovery.com	95
F		
FatCow Hosting	fatcow.com/mac	63
Fengtao Software	dvdFab.com	19
Ford Motor Media	ford.com	3
H		
Henge Docks	hengedocks.com	8
Hewlett-Packard	hp.com/officejetpro	CV4
I		
iCoverSkin	icoverskin.com	93
IGG Software	go-ibank.com	47
Inkfarm.com	inkfarm.com	95
Insight Cruises	insightcruises.com	22, 55, 80
K		
Kinekt Design	kinektDesign.com	93
L		
Lenspen	lenspen.com/macworld	6
LifeProof	lifeproof.com	29
M		
Mace Group/Macally	macally.com	23
Macessity	macessity.com	94
MacUpdate	mupromo.com/mw	C2, 79
Matias Corporation	matias.ca	16
Mindwrap	filedright.com	22
O		
OCZ Technology	ocz.com	9
OtherWorldComputing	macsales.com	C3, 88-89
R		
Rain Design	rainDesigninc.com	92
Ramjet	ramjet.com	91
Rosetta Stone	rosettastone.com	35

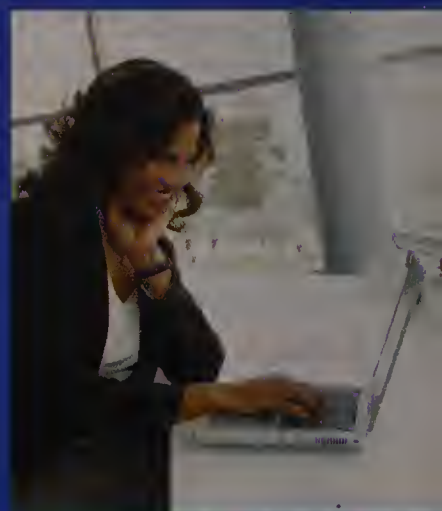
ADVERTISER	INTERACT	PAGE NO.
RightSignature	getrightsignature.com	6
S		
Sanho Corp	hypermac.com	
SeafoodByNet.com	seafoodbynet.com	9
SeaSucker	applemount.com	8
Sedna	sedna-presenter.com/presenter3	9
Sell Your Old Apple, Inc.	sellyouroidiphone.com	1
SellYourMac.com	sellyourmac.com	9
Smile	smilesoftware.com	
T		
The Neat Company	neatco.com	1
U		
US+U	usplusu.com	9
W		
Worth Ave. Group	worthavegroup.com	7
Z		
ZAGG Inc.	zagg.com	1
Zco	zco.com	4

Are you ready to connect?

You're the technology expert and have the valuable insight that we are looking for about a wide variety of personal and business computing topics. We want to hear what you have to say.

Please join us in the **Macworld Member Panel**. You'll partake in exclusive member surveys and receive access to special offers, contests, and events.

Learn more at
www.MacworldConnect.com



Macworld Connect

~sedna presenter®

Digital Signage for Mac

~sedna presenter 3 is packed with new features to let you create even more versatile, powerful and stylish digital signage experiences.

With the new version, Presenter Scheduler has become Presenter Creator, representing the decision to go beyond scheduling and to put true creativity at the user's fingertips.



Welcome to Presenter Creator

Learn more on our microsite where – for a limited time only – you can enjoy some great deals and discounts for ~sedna presenter 3.

www.sedna-presenter.com/presenter3

Exclusive distribution for North America:
www.sedna-presenter.com/ats

activate the space
A VISUAL TECHNOLOGY COMPANY



Superior Quality Mac Memory



Lifetime Warranty

Same Day Shipping

1-800-831-4569

Mon-Fri 9am-6pm CST

Memory Upgrades

iMac Intel DDR3



4GB - \$ 55.99
8GB - \$ 99.99
16GB - \$ 195.99
32GB - \$ 494.99

Mac Pro DDR3



16GB - \$ 199.99
32GB - \$ 389.99
64GB - \$ 819.99
96GB - \$ 1459.99

MacBook DDR3



4GB - \$ 55.99
6GB - \$ 85.99
8GB - \$ 99.99

MacBook Pro DDR3



4GB - \$ 55.99
8GB - \$ 99.99
16GB - \$ 249.99

Mac Mini DDR3



4GB - \$ 55.99
8GB - \$ 99.99
16GB - \$ 249.99

MacBook Drives



500GB - \$ 119.99
1TB - \$ 199.99
240GB SSD - \$ 399.99



Speak to a
Memory Expert

Secure Online Ordering at

WWW.RAMJET.COM

Prices subject to change without notice

Professional, Fast, Dependable

Sync and Charge in Style



Colored Sync Cables for iPhone, iPod and iPad

CableJive

www.cablejive.com

15% off code: **mw2140**
(expires April 30)

mStand



iRest



Designed to uplift.

Whether you are using your Macbook or iPad, our stands improve your ergonomic so that you get to work or play in comfort. www.raindesigninc.com



Take an additional

\$10 off

any order over \$99

Use Priority Code **437605** at checkout.

Save up to
85%

Save
\$180
only
\$97⁹⁵

Students, Educators, and
Schools take advantage of

**Academic
Discounts**

**ACADEMIC
SUPERSTORE**

www.AcademicSuperstore.com/mwap

1.800.218.7455

Offer expires 4/30/12. Pricing may vary and subject to change without notice.

12AMGMWAPT

SellYourMac.com vs. "the Competition"

We buy Macs, iPhones, iPads, and iPods!

*All quoted prices on 1/21/2012 with all accessories, with everything in flawless/like new condition. This is the highest price available on SellYourMac.com or "the Competition."

Model	SellYourMac.com	Competition	We Pay More!
13" White 2.4 Macbook	\$280	\$143	+\$137
13" Unibody 2.4 Macbook	\$415	\$270	+\$145
15" Aluminum 2.0 Macbook Pro	\$225	\$86	+\$134
2008 3.0 8core Mac Pro	\$980	\$329	+\$651

*Use promo code "macworldmag4" to automatically receive a \$10 bonus on your quote!

Visit SellYourMac.com to get more Top Dollar quotes!



We can save it!®

Want proof? www.drivesavers.com 800.440.1904

Drivesavers, Inc. A Data Recovery Division of DriveSavers Data Recovery, the DriveSavers logo and "We can save it!" are registered trademarks of DriveSavers, Inc.



WITH MOTION IN MIND

Visit our website to see the gears in action
KINEKTDESIGN.COM

Brilliant

recipe management



A Cook's Books
RECIPE MANAGEMENT

Try the demo:
www.3caam.com

BIG COLOR POSTERS | BANNERS | CANVAS | MOUNTING | LAMINATION

BIGPOSTERS.com

at HUGE DISCOUNTS

2' x 3'
Color
Poster

\$25

18" x 24"
Archival
Canvas

\$24

SPECIAL OFFER
RETRACTABLE BANNER STAND

\$125

33" x 78" Banner Stand
Includes Graphic
& Nylon Case

Retails for over \$350

Use Promotion code: **MACWORLD**

Sizes up to 60"x100ft | High Resolution | Color Accurate
Various media: Paper, Canvas, Vinyl, Fabric, Backlit & more

888-880-HUGE

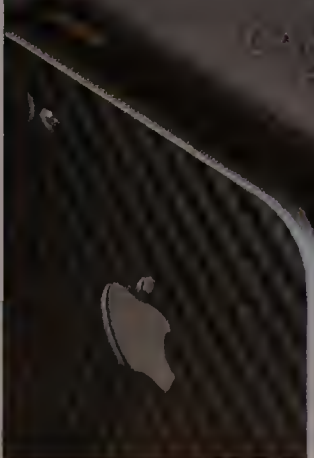
Creative Juices Printing & Graphics 96 Gazza Blvd Farmingdale NY 11735 | tel. 631.249.2211 | www.bigposters.com

No Minimums | No Voicemail - We Answer our Phones 9am-5pm | Fast Turnaround

Feel Your New Skin!



FOR MORE INFO



iCoverSkin.com

Snap On
Earloops
for iPod®
and
iPhone®

EARBUDI.com

ONLY BY **MACESSITY.COM**



LAPTUK PRO

COMPARTMENTS FOR LAPTOP AND KEYBOARD
 ALLOWS EASY ACCESS TO ALL PORTS
 POWERED USB2.0 HUB WITH ADAPTOR
 FITS ALL APPLE LAPTOP MODELS
 EXCELLENT DESK SPACE MANAGEMENT



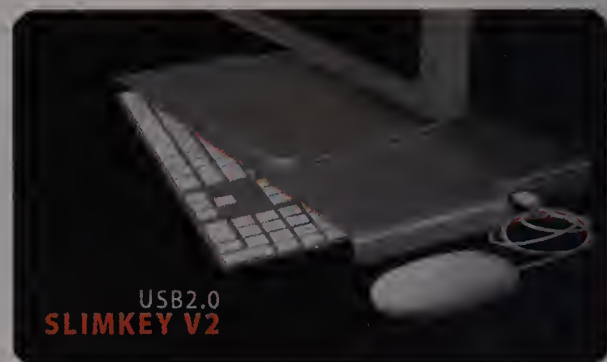
Mi360

ROTATING MAC MINI MOUNT



MiCLASSIC

MAC MINI MOUNT WITH USB2.0



USB2.0
SLIMKEY V2



NEW
 USB2.0
TRAYSTATION PRO



USB2.0
NX STAND

Are you ready to connect?

You're the technology expert and have the valuable insight that we are looking for about a wide variety of personal and business computing topics. We want to hear what you have to say.

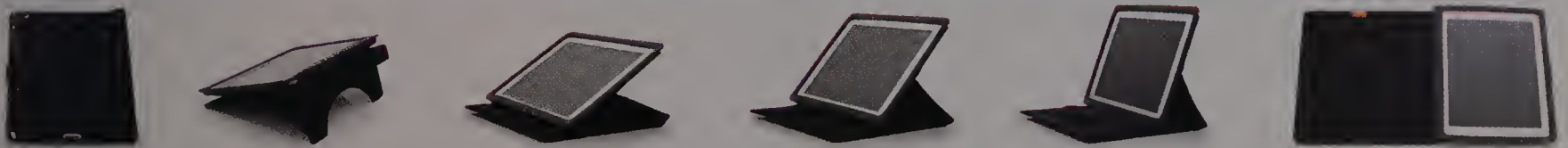
Please join us in the **Macworld Member Panel**. You'll partake in exclusive member surveys and receive access to special offers, contests, and events.

Learn more at
www.MacworldConnect.com



Macworld **Connect**

LESS IN YOUR HANDS AND
MORE AT YOUR FINGERTIPS
(at any angle)

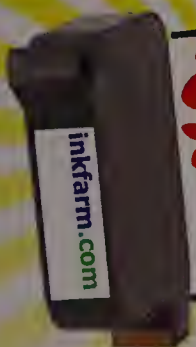


Swivel ProFolio™

The world's only portfolio style case featuring
our patent pending, 360° rotating hand strap.

US+U
UsPlusU.com

NEW LOW PRICE!



\$6.99 (Wow!)
Qty 3+
Qty 2: \$7.99
Qty 1: \$8.99

Remanufactured HP 51645a
(No. 45) ink cartridge.

More great deals at...
1-800-INKFARM

inkfarm.com
the ink & toner supersite.™

SeafoodByNet.com

The best in FRESH, hand selected seafood and
Certified Aged Angus Beef. Call 815.337.4028
or visit www.SeafoodByNet.com to order.



Sign up
for our FREE
Fresh Club Newsletter
for latest **DEALS** on your favorites!

CLEAN-ROOM DATA RECOVERY FAST. RELIABLE. SECURE.



- RAID/HDDs/Tape •
- DOD-Level Security •
- Affordable, Up-front Pricing •
(no hidden charges)
- High Recovery Success •
- Class-100 Clean Room Lab Standards •
- Complete Computer Forensic Services •
- Downloadable Data Recovery Software •



datarecovery.com
ESS DATA RECOVERY LABS
800.237.4200

USA: 110 N. Research Drive, Edwardsville, Illinois 1241 Quarry Lane, Pleasanton, California
6043 Hudson Road, Woodbury, Minnesota CANADA: 7300 Warden Ave., Toronto, Ontario

Apple's School Play

Why the company's education initiative isn't enough

The iPad has begun a quiet revolution in education. All over the world, schools are making ambitious plans to adopt Apple's tablet on a large scale. With the company's recent announcement of its education initiatives—textbooks in the iBookstore, the iBooks Author app, and iTunes U—those plans got a big boost.

iBooks and the iBookstore

Schools have typically bought coupon codes in bulk (via the App Store's Volume Purchase Program); those codes allow students to download electronic books and apps. But those books are downloaded into individual students' accounts and cannot be transferred elsewhere.

This ownership model is out of step with the way schools have traditionally used textbooks—namely, one copy is usually used by multiple students. Unfortunately, iBooks 2 doesn't work that way. The first purchaser owns it and can't sell it, lend it, or even give it away.

I had hoped Apple would offer a mechanism for checking electronic books in and out of a virtual school library. Instead, we got a price cut on textbooks. I can't argue with that; the \$200 textbook has been a blight on American education. But it's possible that, with the iBooks ownership model, schools will spend *more* on books. Buying a \$75 textbook for \$15 would be fine if a school's books lasted just five years. But many schools use books much longer than that.

iBooks Author

Even before Apple announced iBooks Author, teachers were already creating their own teaching materials for the iPad—but doing so hasn't been easy. Because of its ePub support, Pages has been the standard tool. But while it does a reasonably good job, it's limited.

iBooks Author solves this problem. It dramatically smooths the process of

making an ebook: You build the book on a Mac, compile it, and transfer it to an iOS device for testing.

Because the authoring app looks and behaves like a cross between Pages and Keynote, anyone familiar with either of those apps will pick up iBooks Author without any problem. The app could be for books what Keynote is for presentations: an accessible way to produce high-quality results with little effort.

iTunes U

While iBooks 2 and iBooks Author have garnered the most attention, I actually think that iTunes U is the most important of the three education initiatives Apple announced. Until now, iTunes U has been just another category in the iTunes Store, where you could download movies, audio files, and the occasional PDF. But if you ever tried to take a course from iTunes U, you were probably frustrated. It wasn't a full course—just some lecture materials and a reading list, but no books or exercises.

iTunes U is the most important of the three initiatives Apple announced.



Many schools and colleges use learning management systems (LMSs), which provide access to course materials and control students' progress through them. In some cases, these systems can also administer tests and accept student work. Sometimes the LMS can even score the tests and work, and provide feedback. The teacher monitors student progress from a console.

The iTunes U app is half an LMS—but it's the good half. Courses can now contain audio, video, documents, and links to iOS apps and iBooks textbooks. Notes and highlights from an iBooks textbook can be reviewed in the iTunes U app. But the app doesn't monitor student progress. That's a job for a teacher, not a machine.

Historically, it has been difficult to publish through iTunes U; the system was designed to allow a small number of large institutions to publish content to the store. But now, individual K–12 school districts will be able to publish courses to iTunes U. In a world where teachers can have iBooks Author on their Macs and iPads in their classrooms, easy access to a publishing platform such as iTunes U is the missing third leg of the stool.

The Revolution Already Happened

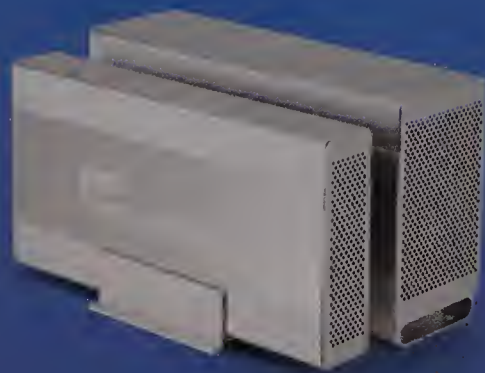
I understand why Apple is pursuing this new e-education agenda: The textbook is embedded in the American school system, and so is an easily understood way to sell the benefits of the iPad to education spenders. But such people may not be ready to hear that teachers and pupils can create their own materials or use the Internet for learning.

As William Gibson put it, the future is already here; it's just not evenly distributed yet.

Fraser Speirs is a Mac and iOS developer, and a teacher at the Cedars School of Excellence in Greenock, Scotland (where every student gets an iPad).

IT'S MORE THAN JUST DATA

IT'S PHOTOS OF AUNT MARGO
IT'S VACATION MEMORIES
IT'S A BIRTHDAY VIDEO
IT'S THAT AMAZING BOOK
IT'S PRECIOUS MOMENTS
IT'S THAT KEY PRESENTATION
IT'S AN AMAZING IDEA
IT'S THE NEXT BIG THING
IT'S HOMEWORK
IT'S DESIGNS
IT'S A SCREENPLAY
IT'S LETTERS & E-MAIL
IT'S IMPORTANT DOCUMENTS
IT'S BUDGETS
IT'S SPREADSHEETS
IT'S A PHOTO SHOOT
IT'S VIDEO PRODUCTION
IT'S MUSIC
IT'S AUDIO RECORDINGS
IT'S YOUR MASTERPIECES



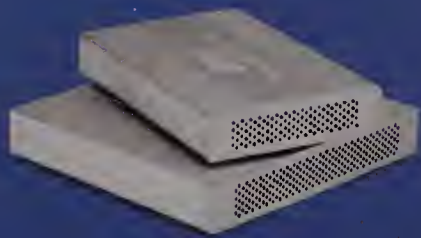
Desktop

OWC MERCURY ELITE PRO

Durable aluminum external drive

- FireWire® 800 + FireWire 400 + USB 2.0 + eSATA
- FireWire 400 + USB 2.0

Up to **8TB** from \$129.99



Portable

OWC MERCURY ELITE PRO mini

Bus-powered durable aluminum external drive

- FireWire 800/400 + USB 2.0 + eSATA
- USB 3.0/2.0 + eSATA 6Gbps

Up to **2TB** from \$119.99



Flexible RAID

OWC MERCURY ELITE PRO QX2

Four-bay durable aluminum external RAID power for the ultimate in flexibility and performance.

- FireWire 800/400 + USB 2.0 + eSATA

Now up to **16TB** from \$599.99
0GB (add your own drives) \$249.99

IT'S YOUR LIFE. IT'S YOUR WORK. ENTRUST THEM TO AN EXTERNAL DRIVE YOU CAN RELY ON.

EXTERNAL DRIVES BUILT BY A COMPANY THAT CARES.

We don't just make external drives. We make dependable external solutions that are designed, built and supported in the USA.

If you have a technical question or need advice on choosing the right storage solution for your needs, our free lifetime U.S.-based support is always available.



DRIVES OF EVERY SIZE AND CAPACITY TO FIT YOUR LIFE.

www.macsales.com/externals

Serving the Apple universe for 24 years.

OWC

1-800-275-4576 | www.macsales.com

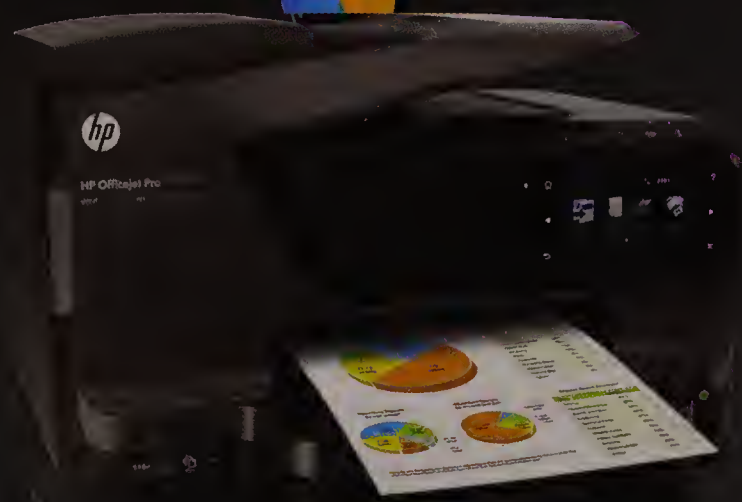
©2012 Other World Computing. All rights reserved. OWC is a registered trademark of New Concepts Development Corporation. Mercury Elite and the OWC logo are trademarks of New Concepts Development Corporation. Other marks may be the trademark or registered trademark property of their owners. Prices, specifications and availability are subject to change without notice.

BIG BUSINESS IMPACT ON A SMALL BUSINESS BUDGET.

GET PROFESSIONAL
COLOR FOR UP TO

50%

**LESS COST PER PAGE
THAN LASER.***



HP OFFICEJET PRO

While budgets may be limited, the possibilities don't need to be. With the HP Officejet Pro, your business can get professional quality color printing for up to half the cost. Create the impact you need to help boost both your image and your bottom line.

hp.com/officejetpro

